

## Ref info supporting the HSCC-chemosensitivity regulating network

Relation Name	PMID	DOI
Regulation: PPARG ---> MAPK1	30278161	10.1016/j.cbi.2018.09.019
Regulation: PPARG ---> MAPK1	15649892	10.1074/jbc.M410445200
Regulation: PPARG ---> MAPK1	16524877	10.1074/jbc.M513786200
Regulation: PPARG ---> MAPK1	15632188	10.1074/jbc.M409447200
Regulation: PPARG ---> MAPK1	18411276	10.1074/jbc.M705822200
Regulation: PPARG ---> MAPK1	28527699	10.1016/j.phrs.2017.05.008
Regulation: PPARG ---> MAPK1	27792919	10.1016/j.intimp.2016.09.028
Regulation: PPARG ---> MAPK1	33539723	10.1016/j.stem.2020.12.008
Regulation: PPARG ---> MAPK1	28580280	10.1016/j.molmet.2017.03.003
Regulation: PPARG ---> MAPK1	22591774	10.1016/j.archoralbio.2012.04.015
Regulation: PPARG ---> MAPK1	16945329	10.1016/j.bbrc.2006.08.085
Regulation: PPARG ---> MAPK1	17583675	10.1016/j.bbrc.2007.05.222
Regulation: PPARG ---> MAPK1	19397913	10.1016/j.yjmcc.2009.04.011
Regulation: PPARG ---> MAPK1	19010350	10.1016/j.pharmthera.2008.10.002
Regulation: PPARG ---> MAPK1	18848847	10.1016/j.bbamcr.2008.09.002
Regulation: PPARG ---> MAPK1	20537761	10.1016/j.ejcb.2010.04.002
Regulation: PPARG ---> MAPK1	18513951	10.1016/j.jsbmb.2008.04.005
Regulation: PPARG ---> MAPK1	19443277	10.1016/j.clim.2009.04.004
Regulation: PPARG ---> MAPK1	23219716	10.1016/j.ajpath.2012.10.007
Regulation: PPARG ---> MAPK1		10.1016/j.jalz.2014.05.748
Regulation: PPARG ---> MAPK1	25557278	10.1016/j.freeradbiomed.2014.12.019
Regulation: PPARG ---> MAPK1	26607460	10.1016/j.ejphar.2015.11.040
Regulation: PPARG ---> MAPK1	26556104	10.1016/j.cyto.2015.11.001
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Regulation: PPARG ---> MAPK1	25632270	10.1186/s12950-014-0044-1
Regulation: PPARG ---> MAPK1	26818512	10.1523/JNEUROSCI.3280-15.2016
Regulation: PPARG ---> MAPK1	27718123	10.1007/s13105-016-0523-3
Regulation: PPARG ---> MAPK1	27718123	10.1007/s13105-016-0523-3
Regulation: PPARG ---> MAPK1	27718123	10.1007/s13105-016-0523-3
Regulation: PPARG ---> MAPK1	28673319	10.1186/s13046-017-0557-6
Regulation: PPARG ---> MAPK1	28466688	10.1177/1074248417707049
Regulation: PPARG ---> MAPK1	29350308	10.1007/s10549-017-4649-y
Regulation: PPARG ---> MAPK1	28534168	10.1007/s00394-017-1473-4
Regulation: PPARG ---> MAPK1	31233701	10.1071/RD19108
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Regulation: PPARG ---> MAPK1	32958825	10.1038/s41416-020-01088-w

Regulation: PPARG ----> MAPK1 32867639 10.2174/0929867327999200820173853  
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 Regulation: PPARG ----> MAPK1 22502865 10.1186/1755-1536-5-5  
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 Regulation: PPARG ----> MAPK1 21532147 10.1248/bpb.34.618  
 Regulation: PPARG ----> MAPK1 21955520 10.1158/1940-6207.CAPR-11-0256  
 Regulation: PPARG ----> MAPK1 23175826 10.1523/JNEUROSCI.2153-12.2012  
 Regulation: PPARG ----> MAPK1 24259663 10.1242/jcs.128306  
 Regulation: PPARG ----> MAPK1 24092354 10.1007/978-3-642-38664-0-21  
 Regulation: PPARG ----> MAPK1 24623782 10.1523/JNEUROSCI.4024-13.2014  
 Regulation: PPARG ----> MAPK1 24623782 10.1523/JNEUROSCI.4024-13.2014  
 Regulation: PPARG ----> MAPK1 24623782 10.1523/JNEUROSCI.4024-13.2014  
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 Regulation: PPARG ----> MAPK1 24623782 10.1523/JNEUROSCI.4024-13.2014  
 Regulation: PPARG ----> MAPK1 24623782 10.1523/JNEUROSCI.4024-13.2014  
 Regulation: PPARG ----> MAPK1 26398946 10.1242/dmm.021550  
 Regulation: PPARG ----> MAPK1 26398946 10.1242/dmm.021550  
 Regulation: PPARG ----> MAPK1 26398946 10.1242/dmm.021550  
 Regulation: PPARG ----> MAPK1 20300579 10.1155/2009/43867310.1155/2009/438673  
 Regulation: PPARG ----> MAPK1 20537761 10.1016/j.ejcb.2010.04.00210.1016/j.ejcb.2010  
 Regulation: PPARG ----> MAPK1 24623782 10.1523/JNEUROSCI.4024-13.201410.1523/JNEUROSCI  
 Regulation: PPARG ----> MAPK1 25557278 10.1016/j.freeradbiomed.2014.12.01910.1016/j.  
 Regulation: PPARG ----> MAPK1 26125905 10.4238/2015.June.26.510.4238/2015.June.26.5  
 Regulation: PPARG ----> MAPK1 30018246 10.3390/md1607023810.3390/md16070238  
 Regulation: PPARG ----> MAPK1 30189217 10.1016/j.lfs.2018.09.00410.1016/j.lfs.2018.0  
 Regulation: PPARG ----> MAPK1 31233701 10.1071/RD1910810.1071/RD19108  
 Regulation: PPARG ----> MAPK1 32417836 10.1159/00050520910.1159/000505209  
 Regulation: PPARG ----> MAPK1 10.1016/j.archoralbio.2012.04.015  
 Regulation: PPARG ----> MAPK1 10.1071/RD19108  
 Regulation: PPARG ----> MAPK1 10.1007/s12253-012-9517-9  
 Regulation: PPARG ----> MAPK1 10.2174/156720211794520224  
 Regulation: PPARG ----> MAPK1 10.1523/JNEUROSCI.4024-13.2014  
 Regulation: PPARG ----> MAPK1 10.1523/JNEUROSCI.4024-13.2014  
 Regulation: PPARG ----> MAPK1 10.1523/JNEUROSCI.4024-13.2014  
 Regulation: PPARG ----> MAPK1 10.1523/JNEUROSCI.4024-13.2014  
 Regulation: PPARG ----> MAPK1 10.1523/JNEUROSCI.4024-13.2014  
 Regulation: PPARG ----> MAPK1 10.1523/JNEUROSCI.4024-13.2014  
 Regulation: PPARG ----> MAPK1 10.1523/JNEUROSCI.4024-13.2014  
 Regulation: PPARG ----> MAPK1 10.1523/JNEUROSCI.4024-13.2014  
 Regulation: PPARG ----> MAPK1 10.1523/JNEUROSCI.4024-13.2014  
 Regulation: PPARG ----> MAPK1 25874449 10.1371/journal.pone.0123724  
 Regulation: PPARG ----> MAPK1 27084771 10.1007/s11064-016-1913-1  
 Regulation: PPARG ----> MAPK1 19142226  
 Regulation: PPARG ----> MAPK1 10.1016/j.archoralbio.2012.04.015  
 Regulation: PPARG ----> MAPK1 10.1016/j.archoralbio.2012.04.015  
 Regulation: PPARG ----> MAPK1 10.1016/j.bbrc.2004.08.101  
 Regulation: PPARG ----> MAPK1 18423937 10.1016/j.peptides.2008.03.001  
 Regulation: PPARG ----> MAPK1 21664456 10.1016/j.freeradbiomed.2011.05.027  
 Regulation: PPARG ----> MAPK1 22633083 10.1016/j.cyto.2012.04.042  
 Regulation: PPARG ----> MAPK1 22591774 10.1016/j.archoralbio.2012.04.015  
 Regulation: PPARG ----> MAPK1 22591774 10.1016/j.archoralbio.2012.04.015  
 Regulation: PPARG ----> MAPK1 25557278 10.1016/j.freeradbiomed.2014.12.019  
 Regulation: PPARG ----> MAPK1 25557278 10.1016/j.freeradbiomed.2014.12.019  
 Regulation: PPARG ----> MAPK1 25557278 10.1016/j.freeradbiomed.2014.12.019



positive Regulation: RAC1 --> Af 12393431 10.1182/blood-2002-04-1251  
positive Regulation: RAC1 --> Af 27018294 10.1016/j.brainres.2016.03.025  
positive Regulation: RAC1 --> Af 29129468 10.1016/j.expneurol.2017.10.030  
positive Regulation: RAC1 --> Af 33388318 10.1053/j.gastro.2020.12.061  
positive Regulation: RAC1 --> Af 25586182 10.1074/jbc.M114.633701  
positive Regulation: RAC1 --> Af 25586182 10.1074/jbc.M114.633701  
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positive Regulation: RAC1 --> Af 16698790 10.1074/jbc.M603508200  
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positive Regulation: RAC1 --> Af 11689561 10.1074/jbc.M107474200  
positive Regulation: RAC1 --> Af 32244053 10.1016/j.gene.2020.144635  
positive Regulation: RAC1 --> Af 31018152 10.1016/j.toxlet.2019.04.017  
positive Regulation: RAC1 --> Af 31018152 10.1016/j.toxlet.2019.04.017  
positive Regulation: RAC1 --> Af 29329780 10.1016/j.cellsig.2018.01.004  
positive Regulation: RAC1 --> Af 29329780 10.1016/j.cellsig.2018.01.004  
positive Regulation: RAC1 --> Af 33152487 10.1016/j.semancer.2020.10.012  
positive Regulation: RAC1 --> Af 27453460 10.1016/j.pan.2016.07.002  
positive Regulation: RAC1 --> Af 31257073 10.1016/j.ccell.2019.05.015  
positive Regulation: RAC1 --> Af 31257073 10.1016/j.ccell.2019.05.015  
positive Regulation: RAC1 --> Af 31257073 10.1016/j.ccell.2019.05.015  
positive Regulation: RAC1 --> Af 28007913 10.1074/mcp.M116.064428  
positive Regulation: RAC1 --> Af 30590131 10.1016/j.jprot.2018.12.019  
positive Regulation: RAC1 --> Af 32460002 10.1016/j.trecan.2020.02.021  
positive Regulation: RAC1 --> Af 32460002 10.1016/j.trecan.2020.02.021  
positive Regulation: RAC1 --> Af 15093747 10.1016/j.yexcr.2004.02.002  
positive Regulation: RAC1 --> Af 15093747 10.1016/j.yexcr.2004.02.002  
positive Regulation: RAC1 --> Af 17292356 10.1016/j.exer.2006.12.012  
positive Regulation: RAC1 --> Af 20538003 10.1016/j.yjmcc.2010.05.007  
positive Regulation: RAC1 --> Af 20538003 10.1016/j.yjmcc.2010.05.007  
positive Regulation: RAC1 --> Af 21925199 10.1016/j.advenzreg.2011.09.001  
positive Regulation: RAC1 --> Af 19118901 10.1016/j.molimm.2008.11.006  
positive Regulation: RAC1 --> Af 18086571 10.1016/j.bbamcr.2007.10.024  
positive Regulation: RAC1 --> Af 20144672 10.1016/j.neuint.2010.01.015  
positive Regulation: RAC1 --> Af 20307615 10.1016/j.neuint.2010.03.005  
positive Regulation: RAC1 --> Af 20307615 10.1016/j.neuint.2010.03.005  
positive Regulation: RAC1 --> Af 15388231 10.1016/j.biochi.2004.07.008  
positive Regulation: RAC1 --> Af 15013523 10.1016/j.canlet.2003.08.035  
positive Regulation: RAC1 --> Af 20074642 10.1016/j.cellsig.2010.01.001

positive Regulation: RAC1 --> Af20074642 10.1016/j.cellsig.2010.01.001  
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positive Regulation: RAC1 --> Af20074642 10.1016/j.cellsig.2010.01.001  
positive Regulation: RAC1 --> Af21683139 10.1016/j.cellsig.2011.05.022  
positive Regulation: RAC1 --> Af21251810 10.1016/j.gde.2010.12.004  
positive Regulation: RAC1 --> Af15752980 10.1016/j.tcb.2005.01.002  
positive Regulation: RAC1 --> Af21474067 10.1016/j.molcel.2011.03.017  
positive Regulation: RAC1 --> Af21474067 10.1016/j.molcel.2011.03.017  
positive Regulation: RAC1 --> Af21474067 10.1016/j.molcel.2011.03.017  
positive Regulation: RAC1 --> Af21474067 10.1016/j.molcel.2011.03.017  
positive Regulation: RAC1 --> Af20060361 10.1016/j.coph.2009.11.004  
positive Regulation: RAC1 --> Af12086876 10.1016/S1535-6108(02)00033-8  
positive Regulation: RAC1 --> Af23623748 10.1016/j.cmet.2013.03.017  
positive Regulation: RAC1 --> Af23706742 10.1016/j.cell.2013.04.031  
positive Regulation: RAC1 --> Af23706742 10.1016/j.cell.2013.04.031  
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positive Regulation: RAC1 --> Af24508121 10.1016/j.bbagen.2014.01.033  
positive Regulation: RAC1 --> Af24508121 10.1016/j.bbagen.2014.01.033  
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positive Regulation: RAC1 --> AKT1 10.1016/j.trecan.2020.02.021  
positive Regulation: RAC1 --> AKT1 10.1016/j.trecan.2020.02.021  
positive Regulation: RAC1 --> AKT1 10.1016/j.advenzreg.2011.09.001  
positive Regulation: RAC1 --> AKT1 10.1016/j.cellsig.2010.01.001  
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positive Regulation: RAC1 --> Af 32432925 10.1152/ajpcell.00505.2019  
positive Regulation: RAC1 --> Af 32432925 10.1152/ajpcell.00505.2019  
positive Regulation: RAC1 --> Af 32432925 10.1152/ajpcell.00505.2019  
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positive Regulation: RAC1 --> Af 12842860  
positive Regulation: RAC1 --> Af 12842860  
positive Regulation: RAC1 --> AKT1 10.1074/mcp.M116.064428  
positive Regulation: RAC1 --> Af 29749029 10.1113/JP27560210.1113/JP275602  
positive Regulation: RAC1 --> Af 9601639 10.1016/S0960-9822(98)70224-6  
positive Regulation: RAC1 --> Af 24216610 10.1016/j.cellsig.2013.11.007  
positive Regulation: RAC1 --> Af 16698790  
positive Regulation: RAC1 --> Af 16339142  
positive Regulation: RAC1 --> Af 10973919  
positive Regulation: RAC1 --> Af 16514078  
positive Regulation: RAC1 --> Af 27726098 10.1007/s13277-016-5374-6  
positive Regulation: RAC1 --> Af 28805822 10.1038/nm.4379  
positive Regulation: RAC1 --> AKT1 10.1042/BCJ20170279  
positive Regulation: RAC1 --> Af 21984807 10.1242/jcs.092601  
positive Regulation: RAC1 --> Af 21537609 10.1590/S0100-879X2011007500057  
positive Regulation: RAC1 --> Af 21110188 10.1007/s00223-010-9435-3  
positive Regulation: RAC1 --> Af 21110188 10.1007/s00223-010-9435-3  
positive Regulation: RAC1 --> Af 17467682 10.1016/j.ydbio.2007.03.520  
positive Regulation: RAC1 --> Af 15093747 10.1016/j.yexpr.2004.02.002  
positive Regulation: RAC1 --> Af 20538003 10.1016/j.yjmcc.2010.05.007  
positive Regulation: RAC1 --> Af 17188364 10.1016/j.brainresrev.2006.09.004  
positive Regulation: RAC1 --> Af 15752980 10.1016/j.tcb.2005.01.002

positive Regulation: RAC1 --> Af 12621032  
positive Regulation: RAC1 --> Af 11369774  
positive Regulation: RAC1 --> Af 11956329  
positive Regulation: RAC1 --> Af 20811053 10.1167/iov.10-6140  
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positive Regulation: RAC1 --> Af 22995516 10.1161/ATVBAHA.112.254920  
positive Regulation: RAC1 --> Af 23446149 10.1189/jlb.0912473  
positive Regulation: RAC1 --> Af 23640896 10.1074/jbc.M113.467647  
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positive Regulation: RAC1 --> Af 23640896 10.1074/jbc.M113.467647  
positive Regulation: RAC1 --> Af 21339740 10.1038/onc.2011.22  
positive Regulation: RAC1 --> Af 21339740 10.1038/onc.2011.22  
positive Regulation: RAC1 --> Af 21455314 10.1371/journal.pone.0018002  
positive Regulation: RAC1 --> Af 20124168 10.1200/JCO.2009.25.8624  
positive Regulation: RAC1 --> Af 22723286 10.1099/mic.0.059972-0  
positive Regulation: RAC1 --> Af 22723286 10.1099/mic.0.059972-0  
positive Regulation: RAC1 --> Af 22723286 10.1099/mic.0.059972-0  
positive Regulation: RAC1 --> Af 22723286 10.1099/mic.0.059972-0  
positive Regulation: RAC1 --> Af 23898047 10.1189/jlb.0313174  
positive Regulation: RAC1 --> Af 23919665 10.1089/ars.2013.5526  
positive Regulation: RAC1 --> Af 22668020 10.4149/neo\_2012\_070  
positive Regulation: RAC1 --> Af 24604047  
positive Regulation: RAC1 --> Af 24667766 10.1371/journal.pone.0092398  
positive Regulation: RAC1 --> Af 24667766 10.1371/journal.pone.0092398  
positive Regulation: RAC1 --> Af 24667766 10.1371/journal.pone.0092398  
positive Regulation: RAC1 --> Af 24571616 10.1186/1742-4690-11-20  
positive Regulation: RAC1 --> AKT1 10.1172/JCI73579  
positive Regulation: RAC1 --> Af 25268615 10.3390/ijms151017411  
positive Regulation: RAC1 --> Af 23686855 10.1152/ajplung.00298.2012  
positive Regulation: RAC1 --> Af 23686855 10.1152/ajplung.00298.2012  
positive Regulation: RAC1 --> AKT1 10.1074/jbc.M114.633701  
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positive Regulation: RAC1 --> AKT1  
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positive Expression: AKT1 --> SF22675553 10.1371/journal.pone.0038378  
positive Expression: AKT1 --> SF22675553 10.1371/journal.pone.0038378  
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positive Expression: AKT1 --> SF22675553 10.1371/journal.pone.0038378

positive Expression: AKT1 --> SF 22675553 10.1371/journal.pone.0038378  
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ProtModification: AKT1 ---> RAC1 16973299 10.1016/j.neuroscience.2006.07.049  
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 Expression: MAPK1 ---> PPARG 18790715 10.1016/j.mce.2008.08.018  
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ProtModification: MAPK1 ---> PPAF33359696 10.1016/j.bbadis.2020.166050  
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ProtModification: MAPK1 ---> PPAF27268145 10.1016/j.phrs.2016.02.028  
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ProtModification: MAPK1 ---> PPAF21486568 10.1016/j.febslet.2011.03.066  
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ProtModification: MAPK1 ---> PPAF22137902 10.1016/j.fct.2011.11.020  
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ProtModification: MAPK1 ---> PPAF15780600 10.1016/j.ceb.2005.02.002  
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ProtModification: MAPK1 ---> PPAF17560826 10.1016/j.bbalip.2007.04.018  
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ProtModification: MAPK1 ---> PPAF23058985 10.1016/j.bcp.2012.09.033  
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ProtModification: MAPK1 ---> PPAF24036109 10.1016/j.ejphar.2013.08.035  
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ProtModification: MAPK1 ---> PPAF 20590410 10.1089/scd.2010.0071  
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ProtModification: MAPK1 ---> PPAF 24194944 10.1371/journal.pone.0078536  
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ProtModification: MAPK1 ---> PPAF25409143 10.1038/nature13887  
 ProtModification: MAPK1 ---> PPAF25790378 10.1371/journal.pone.0120073  
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negative Regulation: UCA1 ---| cf 30868851 10.7754/Clin.Lab.2018.180739  
negative Regulation: UCA1 ---| cf 31173289 10.26355/eurrev\_201905\_17921  
negative Regulation: UCA1 ---| cf 31528122 10.1186/s12935-019-0934-7  
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ProtModification: PTEN ---> AKT1 10.1016/S1535-6108(03)00331-3  
ProtModification: PTEN ---> AKT1 20801415 10.1016/j.trsl.2010.06.003  
ProtModification: PTEN ---> AKT1 23403165 10.1016/j.bbcan.2013.01.004

ProtModification: PTEN ---> AKT1 23458710 10.1016/j.neuroscience.2013.02.046  
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ProtModification: PTEN ---> AKT1 21874010 10.1038/modpathol.2011.133  
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ProtModification: PTEN ---> AKT1 33189865 10.1016/j.mce.2020.111080

ProtModification: PTEN ---> AKT1 33554779 10.1152/AJPENDO.00275.2020  
 ProtModification: PTEN ---> AKT1 33554779 10.1152/AJPENDO.00275.2020  
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 Regulation: SPP1 ---> PTEN 28928218 10.1074/jbc.M117.797787  
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 Regulation: SPP1 ---> PTEN 19683677 10.1016/j.chom.2009.07.008  
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 positive Regulation: ING4 --> cf23969950 10.3892/or.2013.2671  
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 Regulation: TP53 ---> PAX8 23868062 10.1038/cddis.2013.262  
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 Expression: CYP2J2 ---> PPARG 23696562 10.1210/en.2012-2166  
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 Expression: CYP2J2 ---> PPARG 25389363 10.1152/ajpendo.00118.2014  
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 Expression: CYP2J2 ---> PPARG 25389363 10.1152/ajpendo.00118.2014  
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positive Expression: AKT1 --> CI 33171331 10.1016/j.redox.2020.101780  
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 Regulation: CD274 ---> AKT1 33301862 10. 1016/j. semcancer. 2020. 12. 001  
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positive Expression: MAPK1 --> F24416349 10.1371/journal.pone.0085116  
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 ProtModification: AKT1 ---> TP53 15809051 10.1016/j.bbrc.2005.03.044  
 ProtModification: AKT1 ---> TP53 16956580 10.1016/j.bbrc.2006.08.120  
 ProtModification: AKT1 ---> TP53 19147016 10.1016/j.ijrobp.2008.09.036  
 ProtModification: AKT1 ---> TP53 21406225 10.1016/j.cellsig.2011.03.009  
 ProtModification: AKT1 ---> TP53 10.1016/S0959-437X(02)00274-5  
 ProtModification: AKT1 ---> TP53 15574337 10.1016/j.molcel.2004.11.003  
 ProtModification: AKT1 ---> TP53 27208405 10.1016/j.placenta.2016.03.001  
 ProtModification: AKT1 ---> TP53 16452501  
 ProtModification: AKT1 ---> TP53 20200230  
 ProtModification: AKT1 ---> TP53 11960368  
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 ProtModification: AKT1 ---> TP53 29895969 10.1038/s41388-018-0333-x  
 ProtModification: AKT1 ---> TP53 30865562 10.1091/mbc.E18-12-0770  
 ProtModification: AKT1 ---> TP53 21455568 10.3892/ijo.2011.984  
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 ProtModification: AKT1 ---> TP53 21562588 10.1038/cddis.2011.39  
 ProtModification: AKT1 ---> TP53 24285894 10.1523/JNEUROSCI.3293-13.2013  
 ProtModification: AKT1 ---> TP53 26096928 10.1038/onc.2015.228  
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 ProtModification: AKT1 ---> TP53 10.1016/j.bbrc.2005.03.044  
 ProtModification: AKT1 ---> TP53 10.1091/mbc.E18-12-0770  
 ProtModification: AKT1 ---> TP53 10.1523/JNEUROSCI.3293-13.2013

ProtModification: AKT1 ---> TP53 14967490 10.1016/j.virol.2003.11.008  
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negative miRNAEffect: MIR107 ---| 25386925 10.1371/journal.pone.0111860  
negative miRNAEffect: MIR107 ---| 25386925 10.1371/journal.pone.0111860  
negative miRNAEffect: MIR107 ---| 25386925 10.1371/journal.pone.0111860  
negative miRNAEffect: MIR107 ---| 25386925 10.1371/journal.pone.0111860  
negative miRNAEffect: MIR107 ---| 25386925 10.1371/journal.pone.0111860  
negative miRNAEffect: MIR107 ---| 25386925 10.1371/journal.pone.0111860  
negative miRNAEffect: MIR107 ---| 25386925 10.1371/journal.pone.0111860  
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positive Regulation: PTGS2 --+> S22355367 10.1371/journal.pone.0031458  
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positive Expression: SPP1 --+> P123166604 10.1371/journal.pone.0049014  
positive Expression: SPP1 --+> P123728342 10.1038/onc.2013.184

positive Expression: SPP1 --> P123728342 10.1038/onc.2013.184  
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 Regulation: TP53 ---> AKT1 12393587 10.1182/blood-2002-02-0504  
 Regulation: TP53 ---> AKT1 32687844 10.1016/j.cbi.2020.109196  
 Regulation: TP53 ---> AKT1 31870856 10.1016/j.yexmp.2019.104362  
 Regulation: TP53 ---> AKT1 30528266 10.1016/j.yexcr.2018.12.002  
 Regulation: TP53 ---> AKT1 30528266 10.1016/j.yexcr.2018.12.002  
 Regulation: TP53 ---> AKT1 30528266 10.1016/j.yexcr.2018.12.002  
 Regulation: TP53 ---> AKT1 30528266 10.1016/j.yexcr.2018.12.002  
 Regulation: TP53 ---> AKT1 30528266 10.1016/j.yexcr.2018.12.002  
 Regulation: TP53 ---> AKT1 20685653 10.1074/jbc.M110.134650  
 Regulation: TP53 ---> AKT1 20685653 10.1074/jbc.M110.134650  
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 Regulation: TP53 ---> AKT1 24451373 10.1074/jbc.M113.532523  
 Regulation: TP53 ---> AKT1 24451373 10.1074/jbc.M113.532523  
 Regulation: TP53 ---> AKT1 19339243 10.1074/jbc.M809757200  
 Regulation: TP53 ---> AKT1 30473026 10.1016/j.lfs.2018.10.051  
 Regulation: TP53 ---> AKT1 33333052 10.1016/j.lfs.2020.118814  
 Regulation: TP53 ---> AKT1 32693135 10.1016/j.ijbiomac.2020.07.137  
 Regulation: TP53 ---> AKT1 30170033 10.1016/j.dci.2018.08.017  
 Regulation: TP53 ---> AKT1 26875545 10.1016/j.plipres.2016.02.001  
 Regulation: TP53 ---> AKT1 30296496 10.1016/j.bbamcr.2018.10.005  
 Regulation: TP53 ---> AKT1 32738450 10.1016/j.jhep.2020.07.036  
 Regulation: TP53 ---> AKT1 32738450 10.1016/j.jhep.2020.07.036  
 Regulation: TP53 ---> AKT1 27600832 10.1016/j.bbcan.2016.09.001  
 Regulation: TP53 ---> AKT1 31320250 10.1016/j.prp.2019.152531  
 Regulation: TP53 ---> AKT1 33711551 10.1016/j.biopha.2021.111445  
 Regulation: TP53 ---> AKT1 24355212 10.1016/j.freeradbiomed.2013.12.010  
 Regulation: TP53 ---> AKT1 31953216 10.1016/j.bbadis.2020.165684  
 Regulation: TP53 ---> AKT1 28673691 10.1016/j.mod.2017.06.006  
 Regulation: TP53 ---> AKT1 33773191 10.1016/j.phymed.2021.153534



Regulation: TP53 ---> AKT1 31843464 10.1016/j.bmc.2019.115235  
 Regulation: TP53 ---> AKT1 32652464 10.1016/j.jphotobiol.2020.111951  
 Regulation: TP53 ---> AKT1 30641278 10.1016/j.phrs.2019.01.021  
 Regulation: TP53 ---> AKT1 30641278 10.1016/j.phrs.2019.01.021  
 Regulation: TP53 ---> AKT1 33540047 10.1016/j.phrs.2021.105428  
 Regulation: TP53 ---> AKT1 32502598 10.1016/j.semcancer.2020.05.015  
 Regulation: TP53 ---> AKT1 33785447 10.1016/j.semcancer.2021.03.010  
 Regulation: TP53 ---> AKT1 33785447 10.1016/j.semcancer.2021.03.010  
 Regulation: TP53 ---> AKT1 33785447 10.1016/j.semcancer.2021.03.010  
 Regulation: TP53 ---> AKT1 30389549 10.1016/j.biocel.2018.10.008  
 Regulation: TP53 ---> AKT1 31846838 10.1016/j.drup.2019.100670  
 Regulation: TP53 ---> AKT1 32846356 10.1016/j.dnarep.2020.102952  
 Regulation: TP53 ---> AKT1 33717651 10.1016/j.omtn.2021.02.005  
 Regulation: TP53 ---> AKT1 24857662 10.1016/j.celrep.2014.04.046  
 Regulation: TP53 ---> AKT1 24857662 10.1016/j.celrep.2014.04.046  
 Regulation: TP53 ---> AKT1 32670818 10.1016/j.jtcme.2020.02.003  
 Regulation: TP53 ---> AKT1 10.1016/j.gendis.2020.06.001  
 Regulation: TP53 ---> AKT1 15001399 10.1016/j.abb.2004.01.004  
 Regulation: TP53 ---> AKT1 15001399 10.1016/j.abb.2004.01.004  
 Regulation: TP53 ---> AKT1 15001399 10.1016/j.abb.2004.01.004  
 Regulation: TP53 ---> AKT1 15001399 10.1016/j.abb.2004.01.004  
 Regulation: TP53 ---> AKT1 12213580 10.1016/S0006-2952(02)01149-8  
 Regulation: TP53 ---> AKT1 20362557 10.1016/j.bcp.2010.03.031  
 Regulation: TP53 ---> AKT1 22142888 10.1016/j.bcp.2011.11.022  
 Regulation: TP53 ---> AKT1 16648169 10.1529/biophysj.105.077693  
 Regulation: TP53 ---> AKT1 16648169 10.1529/biophysj.105.077693  
 Regulation: TP53 ---> AKT1 20858413 10.1016/j.bpj.2010.07.042  
 Regulation: TP53 ---> AKT1 20858413 10.1016/j.bpj.2010.07.042  
 Regulation: TP53 ---> AKT1 17935714 10.1016/j.yexcr.2007.08.022  
 Regulation: TP53 ---> AKT1 22192357 10.1016/j.febslet.2011.11.034  
 Regulation: TP53 ---> AKT1 15001356 10.1016/j.jmb.2003.10.081  
 Regulation: TP53 ---> AKT1 19203586 10.1016/j.cell.2008.12.002  
 Regulation: TP53 ---> AKT1 19203586 10.1016/j.cell.2008.12.002  
 Regulation: TP53 ---> AKT1 19203586 10.1016/j.cell.2008.12.002  
 Regulation: TP53 ---> AKT1 21377268 10.1016/j.canlet.2011.02.008  
 Regulation: TP53 ---> AKT1 20951769 10.1016/j.bbcan.2010.10.003  
 Regulation: TP53 ---> AKT1 21632182 10.1016/j.mehy.2011.05.006  
 Regulation: TP53 ---> AKT1 15475174 10.1016/j.toxlet.2004.06.013  
 Regulation: TP53 ---> AKT1 18448277 10.1016/j.toxlet.2008.03.012  
 Regulation: TP53 ---> AKT1 19840842 10.1016/j.exger.2009.10.009  
 Regulation: TP53 ---> AKT1 19840842 10.1016/j.exger.2009.10.009  
 Regulation: TP53 ---> AKT1 18534819 10.1016/j.cellsig.2008.04.011  
 Regulation: TP53 ---> AKT1 14624950 10.1016/S0899-9007(03)00174-6  
 Regulation: TP53 ---> AKT1 15862750 10.1016/j.ejca.2005.02.011  
 Regulation: TP53 ---> AKT1 15862750 10.1016/j.ejca.2005.02.011  
 Regulation: TP53 ---> AKT1 15862750 10.1016/j.ejca.2005.02.011  
 Regulation: TP53 ---> AKT1 16084079 10.1016/j.ejca.2005.03.033  
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 Regulation: TP53 ---> AKT1 11545734 10.1016/S1097-2765(01)00323-9  
 Regulation: TP53 ---> AKT1 12742394 10.1016/S1350-9462(03)00035-1  
 Regulation: TP53 ---> AKT1 19520599 10.1016/j.cytogfr.2009.05.007  
 Regulation: TP53 ---> AKT1 34502416 10.3390/ijms22179507  
 Regulation: TP53 ---> AKT1 34502416 10.3390/ijms22179507

Regulation: TP53 ---> AKT1 34445495 10.3390/ijms22168784  
 Regulation: TP53 ---> AKT1 34416907 10.1186/s13046-021-02061-y  
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 Regulation: TP53 ---> AKT1 32275841 10.1080/15384101.2020.174979010.1080/15384101  
 Regulation: TP53 ---> AKT1 32275841 10.1080/15384101.2020.174979010.1080/15384101  
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 Regulation: TP53 ---> AKT1 24469034 10.1038/onc.2013.58510.1038/onc.2013.585  
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 Regulation: TP53 ---> AKT1 24613379 10.1016/j.freeradbiomed.2014.02.02310.1016/j.  
 Regulation: TP53 ---> AKT1 25268131 10.1371/journal.pone.010681210.1371/journal.p  
 Regulation: TP53 ---> AKT1 10.1016/j.bbrc.2019.02.089  
 Regulation: TP53 ---> AKT1 10.1042/BCJ20190888  
 Regulation: TP53 ---> AKT1 10.1016/j.prp.2019.152531  
 Regulation: TP53 ---> AKT1 10.1016/j.bmc.2019.115235  
 Regulation: TP53 ---> AKT1 10.1016/j.jtcme.2020.02.003  
 Regulation: TP53 ---> AKT1 10.1016/j.bpj.2010.07.042  
 Regulation: TP53 ---> AKT1 10.1016/j.bpj.2010.07.042  
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 Regulation: TP53 ---> AKT1 10.1016/j.ejca.2005.02.011  
 Regulation: TP53 ---> AKT1 10.1016/j.ejca.2005.02.011  
 Regulation: TP53 ---> AKT1 10.1016/j.tibs.2011.10.002  
 Regulation: TP53 ---> AKT1 10.1016/j.semcd.2004.01.002  
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 Regulation: TP53 ---> AKT1 19411072 10.1016/j.ccr.2009.03.021  
 Regulation: TP53 ---> AKT1 19796712 10.1016/j.mito.2009.09.006  
 Regulation: TP53 ---> AKT1 22999923 10.1016/j.neulet.2012.09.022  
 Regulation: TP53 ---> AKT1 22975375 10.1016/j.ccr.2012.08.001  
 Regulation: TP53 ---> AKT1 23870914 10.1016/j.foodchem.2013.05.021  
 Regulation: TP53 ---> AKT1 24113167 10.1016/j.bbapap.2013.09.019  
 Regulation: TP53 ---> AKT1 24060999 10.1016/j.jprot.2013.09.009  
 Regulation: TP53 ---> AKT1 24333688 10.1016/j.pharmthera.2013.12.005  
 Regulation: TP53 ---> AKT1 24374014 10.1016/j.canlet.2013.12.025  
 Regulation: TP53 ---> AKT1 10.1016/j.bbamem.2014.10.036  
 Regulation: TP53 ---> AKT1 10.1016/j.bbrc.2014.11.018  
 Regulation: TP53 ---> AKT1 25016051 10.1016/j.ygcen.2014.06.029  
 Regulation: TP53 ---> AKT1 24915467 10.1016/j.mad.2014.06.002  
 Regulation: TP53 ---> AKT1 25907832 10.1016/j.ajpath.2015.01.025  
 Regulation: TP53 ---> AKT1 25446094 10.1016/j.bbrc.2014.11.018  
 Regulation: TP53 ---> AKT1 25939952 10.1016/j.toxlet.2015.04.015  
 Regulation: TP53 ---> AKT1 26066464 10.1016/j.meegid.2015.06.008  
 Regulation: TP53 ---> AKT1 25450343 10.1016/j.bbamem.2014.10.036  
 Regulation: TP53 ---> AKT1 26718407 10.1016/j.bbrc.2015.12.070  
 Regulation: TP53 ---> AKT1 20124728  
 Regulation: TP53 ---> AKT1 15472230  
 Regulation: TP53 ---> AKT1 12639981  
 Regulation: TP53 ---> AKT1 21138557  
 Regulation: TP53 ---> AKT1 18441250  
 Regulation: TP53 ---> AKT1 12529380  
 Regulation: TP53 ---> AKT1 32664542 10.3390/ijms2114490210.3390/ijms21144902  
 Regulation: TP53 ---> AKT1 32922194 10.7150/ijms.4895510.7150/ijms.48955  
 Regulation: TP53 ---> AKT1 33038921 10.1186/s40779-020-00275-310.1186/s40779-020-  
 Regulation: TP53 ---> AKT1 11959846

Regulation: TP53 ---> AKT1 10579725  
 Regulation: TP53 ---> AKT1 10579725  
 Regulation: TP53 ---> AKT1 10. 3727/096504018X15424918479652  
 Regulation: TP53 ---> AKT1 11782444 10. 1101/gad. 942902  
 Regulation: TP53 ---> AKT1 29190376 10. 1093/jmcb/mjx05110. 1093/jmcb/mjx051  
 Regulation: TP53 ---> AKT1 10579725 10. 1083/jcb. 147. 5. 1063  
 Regulation: TP53 ---> AKT1 10579725 10. 1083/jcb. 147. 5. 1063  
 Regulation: TP53 ---> AKT1 19917135  
 Regulation: TP53 ---> AKT1 15792956  
 Regulation: TP53 ---> AKT1 10579725  
 Regulation: TP53 ---> AKT1 10579725  
 Regulation: TP53 ---> AKT1 18445683  
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 Regulation: TP53 ---> AKT1 17921246  
 Regulation: TP53 ---> AKT1 12972501  
 Regulation: TP53 ---> AKT1 12972501  
 Regulation: TP53 ---> AKT1 11368782  
 Regulation: TP53 ---> AKT1 19057511  
 Regulation: TP53 ---> AKT1 10. 1016/j. cytogfr. 2014. 09. 003  
 Regulation: TP53 ---> AKT1 25438737 10. 1016/j. cytogfr. 2014. 09. 003  
 Regulation: TP53 ---> AKT1 22030255 10. 1016/j. canlet. 2011. 09. 040  
 Regulation: TP53 ---> AKT1 15308206 10. 1016/j. tcb. 2004. 07. 006  
 Regulation: TP53 ---> AKT1 23211536 10. 1016/j. canlet. 2012. 11. 042  
 Regulation: TP53 ---> AKT1 24468652 10. 1016/j. semcdb. 2014. 01. 006  
 Regulation: TP53 ---> AKT1 25016051 10. 1016/j. ygcen. 2014. 06. 029  
 Regulation: TP53 ---> AKT1 25016051 10. 1016/j. ygcen. 2014. 06. 029  
 Regulation: TP53 ---> AKT1 24857548 10. 1016/j. molcel. 2014. 04. 024  
 Regulation: TP53 ---> AKT1 24857662 10. 1016/j. celrep. 2014. 04. 046  
 Regulation: TP53 ---> AKT1 19339243  
 Regulation: TP53 ---> AKT1 18356162  
 Regulation: TP53 ---> AKT1 10446202  
 Regulation: TP53 ---> AKT1 15150542  
 Regulation: TP53 ---> AKT1 12719720  
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 Regulation: TP53 ---> AKT1 12483525  
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 Regulation: TP53 ---> AKT1 11296226  
 Regulation: TP53 ---> AKT1 12446788  
 Regulation: TP53 ---> AKT1 19197384  
 Regulation: TP53 ---> AKT1 22559167 10. 1186/1471-2407-12-166  
 Regulation: TP53 ---> AKT1 22961366 10. 3892/i jo. 2012. 1623  
 Regulation: TP53 ---> AKT1  
 Regulation: TP53 ---> AKT1

Regulation: TP53 ---> AKT1  
 Regulation: TP53 ---> AKT1  
 Regulation: TP53 ---> AKT1  
 Regulation: TP53 ---> AKT1 20685653 10.1074/jbc.M110.134650  
 Regulation: TP53 ---> AKT1 21293193 10.4161/cc.10.4.14864  
 Regulation: TP53 ---> AKT1 21395546 10.2174/156800911795538129  
 Regulation: TP53 ---> AKT1 21743969 10.3892/or.2011.1380  
 Regulation: TP53 ---> AKT1 10.1253/circj.CJ-11-0025  
 Regulation: TP53 ---> AKT1 21138557 10.1186/1476-4598-9-311  
 Regulation: TP53 ---> AKT1 22592924 10.1165/rcmb.2011-03900C  
 Regulation: TP53 ---> AKT1 23733230 10.3892/or.2013.2518  
 Regulation: TP53 ---> AKT1 21487429 10.1038/bjc.2011.84  
 Regulation: TP53 ---> AKT1 20972462 10.1038/onc.2010.486  
 Regulation: TP53 ---> AKT1 20972462 10.1038/onc.2010.486  
 Regulation: TP53 ---> AKT1 20972462 10.1038/onc.2010.486  
 Regulation: TP53 ---> AKT1 20972462 10.1038/onc.2010.486  
 Regulation: TP53 ---> AKT1 21478913 10.1038/onc.2011.117  
 Regulation: TP53 ---> AKT1 22231450 10.1038/onc.2011.576  
 Regulation: TP53 ---> AKT1 23970333 10.3892/ijo.2013.2070  
 Regulation: TP53 ---> AKT1 22076154 10.1371/journal.pone.0027355  
 Regulation: TP53 ---> AKT1 10.1378/chest.11-2746  
 Regulation: TP53 ---> AKT1 10.1378/chest.11-2746  
 Regulation: TP53 ---> AKT1 23028800 10.1371/journal.pone.0045129  
 Regulation: TP53 ---> AKT1 23285096 10.1371/journal.pone.0052572  
 Regulation: TP53 ---> AKT1 24343302 10.1038/ncomms3935  
 Regulation: TP53 ---> AKT1 10.1074/jbc.M113.532523  
 Regulation: TP53 ---> AKT1 10.1074/jbc.M113.532523  
 Regulation: TP53 ---> AKT1 10.1074/jbc.M113.532523  
 Regulation: TP53 ---> AKT1 10.1074/jbc.M113.532523  
 Regulation: TP53 ---> AKT1 10.1074/jbc.M113.532523  
 Regulation: TP53 ---> AKT1 10.4161/auto.27286  
 Regulation: TP53 ---> AKT1 24488098 10.1038/cdd.2014.2  
 Regulation: TP53 ---> AKT1 24971482 10.1038/cdd.2014.69  
 Regulation: TP53 ---> AKT1 25268131 10.1371/journal.pone.0106812  
 Regulation: TP53 ---> AKT1 25501339 10.3892/or.2014.3665  
 Regulation: TP53 ---> AKT1 25663065 10.1007/s12032-015-0483-4  
 Regulation: TP53 ---> AKT1 25748921 10.1371/journal.pone.0118926  
 Regulation: TP53 ---> AKT1 24052005 10.1159/000353164  
 Regulation: TP53 ---> AKT1 25692338 10.1080/15384047.2015.1009269  
 Regulation: TP53 ---> AKT1 25692338 10.1080/15384047.2015.1009269  
 Regulation: TP53 ---> AKT1 25607549 10.1089/dna.2014.2745  
 Regulation: TP53 ---> AKT1 25719246 10.1038/cddis.2015.33  
 Regulation: TP53 ---> AKT1 10.1172/JCI80402  
 Regulation: TP53 ---> AKT1 10.1172/JCI80402  
 Regulation: TP53 ---> AKT1 10.1172/JCI80402  
 Regulation: TP53 ---> AKT1 10.1172/JCI80402  
 Regulation: TP53 ---> AKT1 10.1172/JCI82058  
 Regulation: TP53 ---> AKT1 10.1172/JCI82058  
 Regulation: TP53 ---> AKT1  
 Regulation: TP53 ---> AKT1 20220043 10.1177/0091270010362904  
 Regulation: TP53 ---> AKT1 11959846  
 Regulation: TP53 ---> AKT1 15001399  
 Regulation: TP53 ---> AKT1 16061640  
 Regulation: TP53 ---> AKT1 16894566

Regulation: TP53 ---> AKT1 17935714  
 Regulation: TP53 ---> AKT1 21073655 10.1111/j.1742-4658.2010.07911.x  
 Regulation: TP53 ---> AKT1 23194110 10.1111/j.1742-481X.2012.12000.x  
 Regulation: TP53 ---> AKT1 21575475  
 Regulation: TP53 ---> AKT1 25045020 10.1002/cbin.10334  
 Regulation: TP53 ---> AKT1 25501339 10.3892/or.2014.3665  
 Regulation: TP53 ---> AKT1 25623760  
 Regulation: TP53 ---> AKT1 25961455 10.1172/JCI80402  
 Regulation: TP53 ---> AKT1 26181206 10.1038/cddis.2015.191  
 Regulation: TP53 ---> AKT1 26723251 10.1016/j.bbrc.2015.12.096  
 Regulation: TP53 ---> AKT1 26239548 10.3892/mmr.2015.4137  
 Regulation: TP53 ---> AKT1 26790143 10.1016/j.ejca.2015.12.00210.1016/j.ejca.2015  
 Regulation: TP53 ---> AKT1 26496776 10.1007/s10495-015-1188-z  
 Regulation: TP53 ---> AKT1 26181206 10.1038/cddis.2015.191  
 Regulation: TP53 ---> AKT1 26181206 10.1038/cddis.2015.191  
 Regulation: TP53 ---> AKT1 26181206 10.1038/cddis.2015.191  
 Regulation: TP53 ---> AKT1 26181206 10.1038/cddis.2015.191  
 Regulation: TP53 ---> AKT1 26181206 10.1038/cddis.2015.191  
 Regulation: TP53 ---> AKT1 26181206 10.1038/cddis.2015.191  
 Regulation: TP53 ---> AKT1 26181206 10.1038/cddis.2015.191  
 Regulation: TP53 ---> AKT1 26181206 10.1038/cddis.2015.191  
 Regulation: TP53 ---> AKT1 27869737 10.3390/ijms17111928  
 Regulation: TP53 ---> AKT1 28229963 10.1007/s12038-017-9667-8  
 Regulation: TP53 ---> AKT1 28322991 10.1016/j.gene.2017.03.01410.1016/j.gene.2017  
 Regulation: TP53 ---> AKT1 28339062 10.3892/ijo.2017.392210.3892/ijo.2017.3922  
 Regulation: TP53 ---> AKT1 10.1530/JME-16-0189  
 Regulation: TP53 ---> AKT1 28339062 10.3892/ijo.2017.3922  
 Regulation: TP53 ---> AKT1 28339062 10.3892/ijo.2017.3922  
 Regulation: TP53 ---> AKT1 28439015 10.1073/pnas.1619832114  
 Regulation: TP53 ---> AKT1 28498433 10.3892/or.2017.5637  
 Regulation: TP53 ---> AKT1 28513299 10.1177/1010428317705330  
 Regulation: TP53 ---> AKT1 28166194 10.1038/onc.2016.518  
 Regulation: TP53 ---> AKT1 28667123 10.1073/pnas.170099611410.1073/pnas.170099611  
 Regulation: TP53 ---> AKT1 28691365 10.1111/accel.1263910.1111/accel.12639  
 Regulation: TP53 ---> AKT1 28667123 10.1073/pnas.1700996114  
 Regulation: TP53 ---> AKT1 28667123 10.1073/pnas.1700996114  
 Regulation: TP53 ---> AKT1 28667123 10.1073/pnas.1700996114  
 Regulation: TP53 ---> AKT1 28667123 10.1073/pnas.1700996114  
 Regulation: TP53 ---> AKT1 28667123 10.1073/pnas.1700996114  
 Regulation: TP53 ---> AKT1 28667123 10.1073/pnas.1700996114  
 Regulation: TP53 ---> AKT1 28667123 10.1073/pnas.1700996114  
 Regulation: TP53 ---> AKT1 28263966 10.1038/onc.2017.14  
 Regulation: TP53 ---> AKT1 27714633 10.1007/s12035-016-0126-6  
 Regulation: TP53 ---> AKT1 27278236 10.1007/s00232-016-9909-y  
 Regulation: TP53 ---> AKT1 28727928 10.1139/cjpp-2017-0149  
 Regulation: TP53 ---> AKT1 28643165 10.1007/s00018-017-2575-0  
 Regulation: TP53 ---> AKT1 29147906 10.1007/978-981-10-6583-5\_8  
 Regulation: TP53 ---> AKT1 29147906 10.1007/978-981-10-6583-5\_8  
 Regulation: TP53 ---> AKT1 28696156 10.1080/15384047.2017.1345397  
 Regulation: TP53 ---> AKT1 28696156 10.1080/15384047.2017.1345397  
 Regulation: TP53 ---> AKT1 28696156 10.1080/15384047.2017.1345397  
 Regulation: TP53 ---> AKT1 28696156 10.1080/15384047.2017.1345397  
 Regulation: TP53 ---> AKT1 28696156 10.1080/15384047.2017.1345397

Regulation: TP53 ---> AKT1 28696156 10.1080/15384047.2017.1345397  
 Regulation: TP53 ---> AKT1 28696156 10.1080/15384047.2017.1345397  
 Regulation: TP53 ---> AKT1 29242354 10.1124/mol.117.110759  
 Regulation: TP53 ---> AKT1 29434218 10.1038/s41419-017-0191-4  
 Regulation: TP53 ---> AKT1 29504895 10.1186/s12864-018-4474-7  
 Regulation: TP53 ---> AKT1 29681985 10.1155/2018/8324696  
 Regulation: TP53 ---> AKT1 29693151 10.3892/or.2018.6380  
 Regulation: TP53 ---> AKT1 29845212 10.3892/i jo.2018.4416  
 Regulation: TP53 ---> AKT1 30431131 10.3892/or.2018.6870  
 Regulation: TP53 ---> AKT1 30576070 10.1002/tox.2268510.1002/tox.22685  
 Regulation: TP53 ---> AKT1 10.1186/s12881-019-0752-8  
 Regulation: TP53 ---> AKT1 30289354 10.1080/15384047.2018.1523858  
 Regulation: TP53 ---> AKT1 30337688 10.1038/s41388-018-0521-8  
 Regulation: TP53 ---> AKT1 10.1097/PP0.00000000000000365  
 Regulation: TP53 ---> AKT1 31126310 10.1186/s12943-019-1030-2  
 Regulation: TP53 ---> AKT1 10.1186/s12935-019-0910-2  
 Regulation: TP53 ---> AKT1 10.1186/s12935-019-0910-2  
 Regulation: TP53 ---> AKT1 32014919 10.21873/anticanres.1400810.21873/anticanres.  
 Regulation: TP53 ---> AKT1 32014919 10.21873/anticanres.1400810.21873/anticanres.  
 Regulation: TP53 ---> AKT1 32161037 10.1523/ENEURO.0438-19.202010.1523/ENEURO.043  
 Regulation: TP53 ---> AKT1 10.1007/s13238-019-0640-1  
 Regulation: TP53 ---> AKT1 31115790 10.1007/s13238-019-0634-z  
 Regulation: TP53 ---> AKT1 31115790 10.1007/s13238-019-0634-z  
 Regulation: TP53 ---> AKT1 31115790 10.1007/s13238-019-0634-z  
 Regulation: TP53 ---> AKT1 31115790 10.1007/s13238-019-0634-z  
 Regulation: TP53 ---> AKT1 31115790 10.1007/s13238-019-0634-z  
 Regulation: TP53 ---> AKT1 31115790 10.1007/s13238-019-0634-z  
 Regulation: TP53 ---> AKT1 31115790 10.1007/s13238-019-0634-z  
 Regulation: TP53 ---> AKT1 10.1038/s41388-019-1022-0  
 Regulation: TP53 ---> AKT1 32242617 10.1042/BCJ2019088810.1042/BCJ20190888  
 Regulation: TP53 ---> AKT1 32274755 10.1007/978-3-030-38266-7\_5  
 Regulation: TP53 ---> AKT1 32223728 10.2174/0929866527666200330172646  
 Regulation: TP53 ---> AKT1 32223728 10.2174/0929866527666200330172646  
 Regulation: TP53 ---> AKT1 32223728 10.2174/0929866527666200330172646  
 Regulation: TP53 ---> AKT1 33184290 10.1038/s41419-020-03185-3  
 Regulation: TP53 ---> AKT1 33184290 10.1038/s41419-020-03185-3  
 Regulation: TP53 ---> AKT1 33446037 10.1080/15384047.2020.1839278  
 Regulation: TP53 ---> AKT1 33688358 10.1155/2021/4652492  
 Regulation: TP53 ---> AKT1 33164579 10.1152/AJPHEART.00304.2020  
 Regulation: TP53 ---> AKT1 33164579 10.1152/AJPHEART.00304.2020  
 Regulation: TP53 ---> AKT1 33238278 10.1159/000511505  
 Regulation: TP53 ---> AKT1 26359920 10.1139/c jpp-2015-0159  
 Regulation: TP53 ---> AKT1 33761957 10.1186/s12929-021-00715-9  
 Regulation: TP53 ---> AKT1 34064134 10.3390/i jms22115445  
 Regulation: TP53 ---> AKT1 33920054 10.3390/molecules26082278  
 Regulation: TP53 ---> AKT1 34205414 10.3390/i jms22126587  
 Regulation: TP53 ---> AKT1 34209215 10.3390/i jms22137059  
 Regulation: TP53 ---> AKT1 34209215 10.3390/i jms22137059  
 Regulation: TP53 ---> AKT1 34209215 10.3390/i jms22137059  
 Regulation: TP53 ---> AKT1 34830349 10.3390/i jms222212466  
 Regulation: TP53 ---> AKT1 34813650 10.1042/BCJ20210077  
 Regulation: TP53 ---> AKT1 34907345 10.1038/s41388-021-02147-z10.1038/s41388-021-  
 Regulation: TP53 ---> AKT1 34907345 10.1038/s41388-021-02147-z10.1038/s41388-021-  
 Regulation: TP53 ---> AKT1 34907345 10.1038/s41388-021-02147-z10.1038/s41388-021-  
 Regulation: TP53 ---> AKT1 34911439 10.1186/s11658-021-00293-6

Regulation: TP53 ---> AKT1 34911439 10.1186/s11658-021-00293-6  
 Regulation: TP53 ---> AKT1 10.3390/molecules27010199  
 Regulation: TP53 ---> AKT1 10.3390/molecules27010199  
 Regulation: TP53 ---> AKT1 10.1016/j.ygyno.2022.01.027  
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 negative QuantitativeChange: hypc 35894468 10.2174/1389203723666220727090317  
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 negative Expression: CYP2J2 ---| 31295013 10.1096/fj.201900756R  
 negative Expression: CYP2J2 ---| 31295013 10.1096/fj.201900756R  
 negative Expression: CYP2J2 ---| 31295013 10.1096/fj.201900756R10.1096/fj.201900756R  
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 negative Expression: CYP2J2 ---| 31295013 10.1096/fj.201900756R  
 negative Expression: CYP2J2 ---| 31295013 10.1096/fj.201900756R  
 negative Expression: CYP2J2 ---| 31295013 10.1096/fj.201900756R  
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 Expression: SPP1 ---> TP53 30537505 10.1016/j.ijbiomac.2018.12.075  
 Expression: SPP1 ---> TP53 17785423  
 Expression: SPP1 ---> TP53 29110207 10.1007/s10571-017-0563-4  
 Expression: SPP1 ---> TP53 20676127 10.1038/onc.2010.325  
 Expression: SPP1 ---> TP53 22052905 10.1074/jbc.M111.257519  
 Expression: SPP1 ---> TP53 19016748 10.1111/j.1349-7006.2008.00911.x  
 Expression: SPP1 ---> TP53  
 positive Expression: TP53 --> SF 15501463 10.1016/j.jss.2004.03.028  
 positive Expression: TP53 --> SF 17113338 10.1016/j.cytogfr.2006.09.010  
 positive Expression: TP53 --> SF 32931483 10.1172/JCI137186  
 positive Expression: TP53 --> SF 11807984 10.1002/gcc.10020  
 positive Expression: TP53 --> SF 11807984 10.1002/gcc.10020  
 positive Expression: TP53 --> SF 32638492 10.1111/accel.1318310.1111/accel.13183  
 positive Expression: TP53 --> SF 16567167 10.1016/j.jpedsurg.2005.12.001  
 positive Expression: TP53 --> SF 22405968 10.1016/j.yexcr.2012.02.022  
 positive Expression: TP53 --> SF 20053348 10.1016/j.yexmp.2009.12.008  
 positive Expression: TP53 --> SF 33785447 10.1016/j.semcaner.2021.03.010  
 negative MolTransport: TP53 ---| 19620778  
 negative MolTransport: TP53 ---| 32931483 10.1172/JCI137186  
 negative Regulation: PTEN ---| AF 11991859 10.2741/tsugawa  
 negative Regulation: PTEN ---| AF 10760291 10.1073/pnas.97.8.4233  
 negative Regulation: PTEN ---| AF 15889265 10.1007/s00418-005-0783-4  
 negative Regulation: PTEN ---| AF 20444542 10.1016/j.canlet.2010.04.006  
 negative Regulation: PTEN ---| AF 10748157 10.1074/jbc.M909741199  
 negative Regulation: PTEN ---| AF 19001549 10.1152/ajpendo.90581.2008  
 negative Regulation: PTEN ---| AF 10823906 10.1073/pnas.110149597  
 negative Regulation: PTEN ---| AF 17420249 10.1074/jbc.M608810200  
 negative Regulation: PTEN ---| AF 15379721 10.2174/1568008043339857  
 negative Regulation: PTEN ---| AF 17006756 10.1007/s10549-006-9295-8  
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 negative Regulation: PTEN ---| AF 11991859  
 negative Regulation: PTEN ---| AF 10760291

negative Regulation: PTEN ---| AF15379721  
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 negative miRNAEffect: MIR107 ---| 33785379 10.1016/j.neulet.2021.135855  
 negative miRNAEffect: MIR107 ---| 29857052 10.1016/j.biocel.2018.05.016  
 negative miRNAEffect: MIR107 ---| 29328395 10.3892/or.2018.6205  
 negative miRNAEffect: MIR107 ---| 30149689 10.3390/ijms19092531  
 negative miRNAEffect: MIR107 ---| 30149689 10.3390/ijms19092531  
 negative miRNAEffect: MIR107 ---| 30149689 10.3390/ijms19092531  
 negative miRNAEffect: MIR107 ---| 30149689 10.3390/ijms19092531  
 negative miRNAEffect: MIR107 ---| 30149689 10.3390/ijms19092531  
 negative miRNAEffect: MIR107 ---| 30149689 10.3390/ijms19092531  
 negative miRNAEffect: MIR107 ---| 30149689 10.3390/ijms19092531  
 negative miRNAEffect: MIR107 ---| 29361817 10.4143/crt.2017.537  
 negative miRNAEffect: MIR107 ---| 29361817 10.4143/crt.2017.537  
 negative miRNAEffect: MIR107 ---| 29361817 10.4143/crt.2017.537  
 negative miRNAEffect: MIR107 ---| 29361817 10.4143/crt.2017.537  
 negative miRNAEffect: MIR107 ---| 29361817 10.4143/crt.2017.537  
 negative miRNAEffect: MIR107 ---| 29361817 10.4143/crt.2017.537  
 negative miRNAEffect: MIR107 ---| 29361817 10.4143/crt.2017.537  
 negative miRNAEffect: MIR107 ---| 29361817 10.4143/crt.2017.537  
 negative miRNAEffect: MIR107 ---| 29361817 10.4143/crt.2017.537  
 negative miRNAEffect: MIR107 ---| 29361817 10.4143/crt.2017.537  
 negative miRNAEffect: MIR107 ---| 30123092 10.1186/s12935-018-0612-1  
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GeneticChange: hypopharyngeal sq 16477330 10.1016/S0929-6646(09)60330-2  
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positive Regulation: CD274 --> M29510196 10.1016/j.bbadis.2018.03.002  
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positive Regulation: TP53 --> cf 22445862 10.1016/j.tiv.2012.03.004  
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positive Regulation: TP53 --> cf 27485825 10. 3892/mmr. 2016. 5561  
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positive Regulation: TP53 --> cf 18064040  
positive Regulation: TP53 --> cf 28112370 10. 3892/or. 2017. 5399  
positive Regulation: TP53 --> cf 8642047 10. 1007/bf01220804  
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positive Regulation: TP53 --> cf 28467351 10. 3390/i jms18050961  
positive Regulation: TP53 --> cf 22615851 10. 1371/journal. pone. 0036940  
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 positive Regulation: TP53 --> cf 33256191 10.3390/ijms21238991  
 positive Regulation: TP53 --> chemosensit10.1016/j.jbior.2020.100780  
 positive Regulation: TP53 --> cf 32876741 10.1007/s00508-020-01729-3  
 positive Regulation: TP53 --> cf 33785447 10.1016/j.semcancer.2021.03.010  
 positive Regulation: TP53 --> chemosensit10.1016/j.omtn.2021.07.022  
 positive Regulation: TP53 --> chemosensit10.1016/j.jtcms.2022.01.001  
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 positive DirectRegulation: PRND -24339999 10.1371/journal.pone.0082130  
 positive DirectRegulation: PRND -24339999 10.1371/journal.pone.0082130  
 positive DirectRegulation: PRND -24339999 10.1371/journal.pone.0082130  
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 positive DirectRegulation: PRND -23263379 10.1038/ncb2641  
 positive DirectRegulation: PRND -24339999 10.1371/journal.pone.0082130  
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 Regulation: IGFBP4 ---> AKT1 23499909 10.1016/j.cellsig.2013.02.018  
 Regulation: IGFBP4 ---> AKT1 23499909 10.1016/j.cellsig.2013.02.018  
 Regulation: IGFBP4 ---> AKT1 23639626 10.1016/j.tox.2013.04.014  
 Regulation: IGFBP4 ---> AKT1 15572521  
 Regulation: IGFBP4 ---> AKT1 23499909 10.1016/j.cellsig.2013.02.01810.1016/j.cellsi  
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positive DirectRegulation: ING4 -15882981 10.1016/j.bbrc.2005.04.023  
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positive DirectRegulation: ING4 -23967213 10.1371/journal.pone.0071453  
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positive DirectRegulation: ING4 -23967213 10.1371/journal.pone.0071453  
positive DirectRegulation: ING4 -23967213 10.1371/journal.pone.0071453  
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positive DirectRegulation: ING4 -18775696 10.1016/j.yexcr.2008.08.002  
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positive DirectRegulation: ING4 -15882981 10.1016/j.bbrc.2005.04.023  
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positive DirectRegulation: ING4 -15935570 10.1016/j.gene.2005.02.014  
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 negative DirectRegulation: PTGS2 21765464 10.1038/onc.2011.234  
 negative DirectRegulation: PTGS2 21765464 10.1038/onc.2011.234  
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 Regulation: CD274 ---> MCL1 33581579 10.1016/j.intimp.2021.107443  
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 Expression: PPARG ---> NGF 15713689  
 Expression: PPARG ---> NGF 15100092  
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 positive Regulation: PTGS2 --> #19621391 10.1002/ijc.24757  
 positive Regulation: PTGS2 --> #20486853 10.3109/07357907.2010.483504  
 positive Regulation: PTGS2 --> #20854947 10.1016/j.bone.2010.09.020  
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 positive Regulation: CLDN1 --> M23160379 10.1038/onc.2012.505  
 positive Regulation: CLDN1 --> M23160379 10.1038/onc.2012.505  
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 positive Regulation: CLDN1 --> M23160379 10.1038/onc.2012.505  
 positive Regulation: CLDN1 --> M23160379 10.1038/onc.2012.505  
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 negative Regulation: PTGS2 ---| c16580341 10.1016/j.ajog.2005.07.086  
 negative Regulation: PTGS2 ---| c19836060 10.1016/j.acthis.2009.09.004



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 negative DirectRegulation: TNFAIF 25912734 10.1016/j.bbadis.2015.04.018  
 negative DirectRegulation: TNFAIF 25912734 10.1016/j.bbadis.2015.04.018  
 negative DirectRegulation: TNFAIF 29920292 10.1016/j.canlet.2018.06.017  
 negative DirectRegulation: TNFAIF 33933441 10.1016/j.yexcr.2021.112631  
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 negative DirectRegulation: TNFAIF 30015980 10.3892/or.2018.6576  
 negative DirectRegulation: TNFAIF 25912734 10.1016/j.bbadis.2015.04.018  
 negative DirectRegulation: TNFAIF8L2 ---| 10.1186/s12985-019-1224-7  
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 Regulation: ING4 ---> MAPK1 17517644  
 Regulation: ING4 ---> MAPK1 17517644 10.1073/pnas.0703383104  
 Regulation: ING4 ---> MAPK1 10.1016/j.acthis.2019.06.005  
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 Regulation: NOTCH1 ---> AKT1 31228468 10.1016/j.cbi.2019.108724  
 Regulation: NOTCH1 ---> AKT1 29454609 10.1016/j.ejphar.2018.02.020  
 Regulation: NOTCH1 ---> AKT1 14583609 10.1074/jbc.M309924200  
 Regulation: NOTCH1 ---> AKT1 28893903 10.1074/jbc.M117.790121  
 Regulation: NOTCH1 ---> AKT1 28893903 10.1074/jbc.M117.790121  
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Regulation: NOTCH1 ----> AKT1 23788636 10.1074/jbc.M113.451625  
Regulation: NOTCH1 ----> AKT1 26967479 10.1016/j.jid.2015.11.006  
Regulation: NOTCH1 ----> AKT1 31437519 10.1016/j.humpath.2019.08.003  
Regulation: NOTCH1 ----> AKT1 30629981 10.1016/j.imlet.2019.01.004  
Regulation: NOTCH1 ----> AKT1 29908894 10.1016/j.brainresbull.2018.06.005  
Regulation: NOTCH1 ----> AKT1 33032902 10.1053/j.semdp.2020.09.010  
Regulation: NOTCH1 ----> AKT1 30119264 10.1016/j.biopha.2018.07.018  
Regulation: NOTCH1 ----> AKT1 30119264 10.1016/j.biopha.2018.07.018  
Regulation: NOTCH1 ----> AKT1 27639599 10.1016/j.phrs.2016.09.001  
Regulation: NOTCH1 ----> AKT1 27888063 10.1016/j.biocel.2016.11.013  
Regulation: NOTCH1 ----> AKT1 28609656 10.1016/j.ccell.2017.05.006  
Regulation: NOTCH1 ----> AKT1 29723707 10.1016/j.dnarep.2018.04.002  
Regulation: NOTCH1 ----> AKT1 22465038 10.1016/j.yjmcc.2012.03.007  
Regulation: NOTCH1 ----> AKT1 22056375 10.1016/j.lfs.2011.10.012  
Regulation: NOTCH1 ----> AKT1 21193018 10.1016/j.bbcan.2010.12.002  
Regulation: NOTCH1 ----> AKT1 22293023 10.1016/j.tcm.2011.11.006  
Regulation: NOTCH1 ----> AKT1 21993533 10.1016/j.urolonc.2011.07.006  
Regulation: NOTCH1 ----> AKT1 21993533 10.1016/j.urolonc.2011.07.006  
Regulation: NOTCH1 ----> AKT1 20675210 10.1016/j.scr.2010.06.002  
Regulation: NOTCH1 ----> AKT1 24095799 10.1016/j.yexcr.2013.09.019  
Regulation: NOTCH1 ----> AKT1 24095799 10.1016/j.yexcr.2013.09.019  
Regulation: NOTCH1 ----> AKT1 24140475 10.1016/j.cellsig.2013.09.021  
Regulation: NOTCH1 ----> AKT1 24140475 10.1016/j.cellsig.2013.09.021  
Regulation: NOTCH1 ----> AKT1 24140475 10.1016/j.cellsig.2013.09.021  
Regulation: NOTCH1 ----> AKT1 24140475 10.1016/j.cellsig.2013.09.021  
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Regulation: NOTCH1 ----> AKT1 24140475 10.1016/j.cellsig.2013.09.021  
Regulation: NOTCH1 ----> AKT1 24140475 10.1016/j.cellsig.2013.09.021  
Regulation: NOTCH1 ----> AKT1 24529510 10.1016/j.jcpa.2013.11.213  
Regulation: NOTCH1 ----> AKT1 25109840 10.1016/j.abb.2014.07.023  
Regulation: NOTCH1 ----> AKT1 24775271 10.1016/j.imbio.2014.03.020  
Regulation: NOTCH1 ----> AKT1 24775271 10.1016/j.imbio.2014.03.020  
Regulation: NOTCH1 ----> AKT1 24939178 10.1016/j.ejcb.2014.05.004  
Regulation: NOTCH1 ----> AKT1 25799457 10.1016/j.tips.2015.02.002  
Regulation: NOTCH1 ----> AKT1 26850133 10.1016/j.amjsurg.2015.11.029  
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Regulation: NOTCH1 ----> AKT1 18830414  
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 Regulation: NOTCH1 ---> AKT1 27573203 10.3892/i.jo.2016.3598  
 Regulation: NOTCH1 ---> AKT1 26846632 10.1007/s13365-015-0394-3  
 Regulation: NOTCH1 ---> AKT1 27548161 10.3390/ijms17081357  
 Regulation: NOTCH1 ---> AKT1 27719637 10.2174/1381612822666161006160524  
 Regulation: NOTCH1 ---> AKT1 28241766 10.1186/s12967-017-1151-6  
 Regulation: NOTCH1 ---> AKT1 27593934 10.1038/onc.2016.275  
 Regulation: NOTCH1 ---> AKT1 34502291 10.3390/ijms22179382  
 Regulation: NOTCH1 ---> AKT1 34495871 10.18632/aging.203261  
 Regulation: NOTCH1 ---> AKT1 34495871 10.18632/aging.203261  
 Regulation: NOTCH1 ---> AKT1 34465724 10.1038/s41389-021-00348-510.1038/s41389-021-33015852 10.1111/fcp.1260810.1111/fcp.12608  
 Regulation: NOTCH1 ---> AKT1 34495871 10.18632/aging.20326110.18632/aging.203261  
 Regulation: NOTCH1 ---> AKT1 18369158 10.1161/CIRCRESAHA.107.16474910.1161/CIRCRESA  
 Regulation: NOTCH1 ---> AKT1 23788636 10.1074/jbc.M113.45162510.1074/jbc.M113.45162  
 Regulation: NOTCH1 ---> AKT1 23788636 10.1074/jbc.M113.45162510.1074/jbc.M113.45162  
 Regulation: NOTCH1 ---> AKT1 10.2298/ABS210423030R  
 Regulation: NOTCH1 ---> AKT1 10.1016/j.jsps.2021.12.009  
 Regulation: NOTCH1 ---> AKT1 34995552 10.1016/j.mvr.2021.10430810.1016/j.mvr.2021.1  
 Regulation: NOTCH1 ---> AKT1 35961388 10.1016/j.yexcr.2022.113305  
 Regulation: NOTCH1 ---> AKT1 10.7150/ijbs.71694  
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 Regulation: NOTCH1 ---> AKT1 35704163 10.1007/s12033-022-00476-2  
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 Expression: PTGS2 ---> CD274 28096371 10.1073/pnas.161292011410.1073/pnas.161292011  
 Expression: PTGS2 ---> CD274  
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 negative Regulation: CLDN1 ---| c29524521 10.1016/j.bbamcr.2018.03.001  
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 negative Regulation: CLDN1 ---| c32824620 10.3390/ijms21165909  
 negative Regulation: CLDN1 ---| c33828978 10.3389/fonc.2021.62087310.3389/fonc.2021.620  
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 negative Regulation: ABCC1 ---| c21219875 10.1016/j.bcp.2010.12.018  
 negative Regulation: ABCC1 ---| c11864633 10.1016/S0014-2999(02)01267-0  
 negative Regulation: ABCC1 ---| c22771706 10.1016/j.brainres.2012.06.043  
 negative Regulation: ABCC1 ---| c30001527 10.1159/000491659  
 negative Regulation: ABCC1 ---| c31582906 10.1186/s12935-019-0943-6  
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 negative Regulation: ABCC1 ---| c22460269 10.1038/bjc.2012.81  
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 negative Regulation: ABCC1 ---| c23686318 10.1124/dmd.113.052092  
 negative Regulation: ABCC1 ---| c25895710 10.1007/978-3-319-16537-0\_7  
 negative Regulation: ABCC1 ---| chemosensi10.1186/s12935-019-0943-6  
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positive Regulation: NGF --> LRF 34073639 10. 3390/i jms22115692  
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 positive Regulation: NGF --> LRF 25233900 10. 1186/1471-2202-15-108  
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 positive Expression: IGFBP4 --> 35688891 10. 1038/s41431-022-01129-3  
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 negative Regulation: TNFAIP8L2 --28186089 10. 1038/cgt. 2017. 3  
 negative Regulation: TNFAIP8L2 --29568914 10. 3892/mmr. 2018. 8730  
 negative Regulation: TNFAIP8L2 --30015980 10. 3892/or. 2018. 6576  
 negative Regulation: TNFAIP8L2 --26987289 10. 1038/cgt. 2016. 6  
 negative Regulation: TNFAIP8L2 --26987289 10. 1038/cgt. 2016. 6  
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 positive Expression: AKT1 --> NC 18440314 10. 1016/j. febslet. 2008. 04. 024  
 positive Expression: AKT1 --> NC 21338656 10. 1016/j. bbcn. 2011. 02. 001  
 positive Expression: AKT1 --> NC 21338656 10. 1016/j. bbcn. 2011. 02. 001  
 positive Expression: AKT1 --> NC 17920278 10. 1016/j. tibs. 2007. 09. 002  
 positive Expression: AKT1 --> NC 26850133 10. 1016/j. amjsurg. 2015. 11. 029  
 positive Expression: AKT1 --> NC 18924608  
 positive Expression: AKT1 --> NC 18924608  
 positive Expression: AKT1 --> NC 18924608  
 positive Expression: AKT1 --> NC 18924608  
 positive Expression: AKT1 --> NC 18924608  
 positive Expression: AKT1 --> NC 18924608  
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 positive Expression: AKT1 --> NC 28629170 10. 3390/i jms18061295  
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 positive Expression: AKT1 --> NC 30636930 10. 1186/s12935-018-0714-9  
 positive Expression: AKT1 --> NC 22258620 10. 1038/emboj. 2011. 443  
 positive Expression: AKT1 --> NC 22258620 10. 1038/emboj. 2011. 443  
 positive Expression: AKT1 --> NC 24113181 10. 1038/cddis. 2013. 375

positive Expression: AKT1 --> NC24113181 10.1038/cddis.2013.375  
 positive Expression: AKT1 --> NC24113181 10.1038/cddis.2013.375  
 positive Expression: AKT1 --> NC24113181 10.1038/cddis.2013.375  
 positive Expression: AKT1 --> NC24113181 10.1038/cddis.2013.375  
 positive Expression: AKT1 --> NC24113181 10.1038/cddis.2013.375  
 positive Expression: AKT1 --> NC24113181 10.1038/cddis.2013.375  
 positive Expression: AKT1 --> NC21730286 10.1128/MCB.05821-11  
 positive Expression: AKT1 --> NC24113181 10.1038/cddis.2013.37510.1038/cddis.2013.375  
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 positive Expression: AKT1 --> NC33015852 10.1111/fcp.1260810.1111/fcp.12608  
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 positive Expression: AKT1 --> NOTCH1 10.1186/s12935-018-0714-9  
 positive Expression: AKT1 --> NC36050315 10.1038/s41419-022-05178-w  
 Regulation: ADCY8 ---> AKT1 26992697 10.1016/j.alcohol.2015.11.008  
 Regulation: ADCY8 ---> AKT1 10.1016/j.alcohol.2015.11.008  
 Expression: RAC1 ---> CD274 29432733 10.1016/j.bbrc.2018.02.073  
 Expression: RAC1 ---> CD274 30544828 10.3390/ijms19123949  
 Expression: RAC1 ---> CD274 26176707 10.1111/pcmr.1239210.1111/pcmr.12392  
 positive Expression: TP53 --> CF22819212 10.1016/j.tem.2012.06.007  
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 positive Regulation: MIR107 --> 27498977 10.3892/ijo.2016.3628  
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 positive Regulation: MIR107 --> 33901009 10.18632/aging.202908  
 positive Regulation: MIR107 --> 33901009 10.18632/aging.202908  
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 Expression: TP53 ---> BECN1 36567312 10.1186/s12935-022-02831-4  
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 Expression: TP53 ---> BECN1 29775897 10.1016/j.biopha.2018.04.013  
 Expression: TP53 ---> BECN1 29186924 10.3390/ijms18122541  
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 Expression: TP53 ---> BECN1 34065345 10.3390/ijms22105377  
 Expression: TP53 ---> BECN1 30132535 10.3892/or.2018.664810.3892/or.2018.6648  
 Expression: TP53 ---> BECN1 25208472 10.1111/jcmm.1238610.1111/jcmm.12386  
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 negative Expression: PTEN ---| AF31067440 10.1016/j.yexmp.2019.05.002  
 negative Expression: PTEN ---| AF32919989 10.1016/j.exer.2020.108224  
 negative Expression: PTEN ---| AF32919989 10.1016/j.exer.2020.108224  
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 negative Expression: PTEN ---| AF31004658 10.1016/j.lfs.2019.04.040  
 negative Expression: PTEN ---| AF28095306 10.1016/j.taap.2017.01.005

negative Expression: PTEN ---| Af26801100 10.1016/j.dci.2016.01.004  
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 negative Expression: PTEN ---| Af29288045 10.1016/j.neulet.2017.12.049  
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 negative Expression: PTEN ---| Af29807230 10.1016/j.biopha.2018.04.028  
 negative Expression: PTEN ---| Af26459109 10.1016/j.nbd.2015.10.002  
 negative Expression: PTEN ---| Af28306514 10.1016/j.molcel.2017.02.019  
 negative Expression: PTEN ---| Af30195065 10.1016/j.biocel.2018.09.003  
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 negative Expression: PTEN ---| Af30248461 10.1016/j.jprot.2018.09.005  
 negative Expression: PTEN ---| Af28647188 10.1016/j.apjtm.2017.05.007  
 negative Expression: PTEN ---| Af20079711 10.1016/j.bbrc.2010.01.045  
 negative Expression: PTEN ---| Af20163786 10.1016/j.biopsych.2009.12.031  
 negative Expression: PTEN ---| Af21111719 10.1016/j.brainres.2010.11.062  
 negative Expression: PTEN ---| Af17540362 10.1016/j.ydbio.2007.04.051  
 negative Expression: PTEN ---| Af19628092 10.1016/j.surg.2009.04.007  
 negative Expression: PTEN ---| Af18662848 10.1016/j.canlet.2008.06.018  
 negative Expression: PTEN ---| Af18996641 10.1016/j.canlet.2008.09.019  
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ProtModification: PTEN ---> AKT1 33189865 10.1016/j.mce.2020.111080  
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ProtModification: PTEN ---> AKT1 31492635 10.1016/j.molcel.2019.08.006  
ProtModification: PTEN ---> AKT1 33098764 10.1016/j.molcel.2020.10.003  
ProtModification: PTEN ---> AKT1 27297622 10.1016/j.biocel.2016.06.006  
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ProtModification: PTEN ---> AKT1 19264909 10.2353/ajpath.2009.080460  
ProtModification: PTEN ---> AKT1 20515660 10.1016/j.bbrc.2010.05.140  
ProtModification: PTEN ---> AKT1 22074824 10.1016/j.bbrc.2011.10.120  
ProtModification: PTEN ---> AKT1 22074824 10.1016/j.bbrc.2011.10.120  
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ProtModification: PTEN ---> AKT1 15652487 10.1016/j.cell.2004.12.033  
ProtModification: PTEN ---> AKT1 22244698 10.1016/j.biomaterials.2011.12.051  
ProtModification: PTEN ---> AKT1 20347952 10.1016/j.exger.2010.03.015  
ProtModification: PTEN ---> AKT1 20678571 10.1016/j.freeradbiomed.2010.07.020  
ProtModification: PTEN ---> AKT1 18495460 10.1016/j.jnutbio.2007.12.001  
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ProtModification: PTEN ---> AKT1 28358430 10.3892/mmr.2017.6415  
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ProtModification: PTEN ---> AKT1 33554779 10.1152/AJPENDO.00275.2020  
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ProtModification: PTEN ---> AKT1 21170325 10.1371/journal.pone.0015170  
ProtModification: PTEN ---> AKT1 21253589 10.1371/journal.pone.0015909  
ProtModification: PTEN ---> AKT1 21494560 10.1371/journal.pone.0018702  
ProtModification: PTEN ---> AKT1 22194952 10.1371/journal.pone.0028930  
ProtModification: PTEN ---> AKT1 24113181 10.1038/cddis.2013.375  
ProtModification: PTEN ---> AKT1 24040957 10.1089/ars.2013.5619  
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 ProtModification: PTEN ---> AKT1 25778370 10.1186/s13058-015-0534-y  
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 ProtModification: PTEN ---> AKT1 25825815 10.1210/en.2014-1362  
 ProtModification: PTEN ---> AKT1 10.1074/jbc.M115.684746  
 ProtModification: PTEN ---> AKT1  
 ProtModification: PTEN ---> AKT1 26692175 10.1038/ni.3311  
 ProtModification: PTEN ---> AKT1 259 10.1016/j.ceca.2017.01.003  
 ProtModification: PTEN ---> AKT1 23953228 10.1016/j.humpath.2013.05.014  
 ProtModification: PTEN ---> AKT1 17478730  
 ProtModification: PTEN ---> AKT1 11103942  
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 ProtModification: PTEN ---> AKT1 22364283 10.1042/BJ20112037  
 ProtModification: PTEN ---> AKT1 21874010 10.1038/modpathol.2011.133  
 ProtModification: PTEN ---> AKT1 21874010 10.1038/modpathol.2011.133  
 ProtModification: PTEN ---> AKT1 24736893 10.3892/mmr.2014.2155  
 ProtModification: PTEN ---> AKT1 25333206 10.3892/mmr.2014.2700  
 ProtModification: PTEN ---> AKT1 25234167 10.1038/leu.2014.278  
 ProtModification: PTEN ---> AKT1 27035337 10.3892/mmr.2016.5048  
 ProtModification: PTEN ---> AKT1 26589417 10.1007/s13277-015-4456-1  
 ProtModification: PTEN ---> AKT1 20515660 10.1016/j.bbrc.2010.05.140  
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 ProtModification: PTEN ---> AKT1 27829222 10.18632/oncotarget.1311310.18632/oncotarget.  
 ProtModification: PTEN ---> AKT1 17018242 10.1016/j.neuint.2006.08.008  
 ProtModification: PTEN ---> AKT1 23453810 10.1016/j.molcel.2013.01.037  
 ProtModification: PTEN ---> AKT1 23639247 10.1016/j.toxlet.2013.04.018  
 ProtModification: PTEN ---> AKT1 26708722 10.1016/j.bbagrm.2015.12.006  
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 ProtModification: PTEN ---> AKT1 28358430 10.3892/mmr.2017.6415  
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 ProtModification: PTEN ---> AKT1 28982275 10.1177/1933719117734700  
 ProtModification: PTEN ---> AKT1 28982275 10.1177/1933719117734700  
 ProtModification: PTEN ---> AKT1 28982275 10.1177/1933719117734700  
 ProtModification: PTEN ---> AKT1 28982275 10.1177/1933719117734700  
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 ProtModification: PTEN ---> AKT1 34635142 10.1186/s13046-021-02097-0  
 ProtModification: PTEN ---> AKT1 33895342 10.1016/j.neuroscience.2021.04.01010.1016/j.n  
 ProtModification: PTEN ---> AKT1 34998390 10.1186/s12964-021-00805-z  
 ProtModification: PTEN ---> AKT1 34248141 10.1038/s41392-021-00571-x10.1038/s41392-021-  
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 negative MolTransport: PTEN ---| 23981302 10.1016/j.cellsig.2013.08.005  
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DirectRegulation: UCA1 ---> TP53 33421618 10.1016/j.semcaner.2020.12.019  
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positive PromoterBinding: TP53 -- 15016317 10.1111/j.1349-7006.2004.tb02203.x  
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positive PromoterBinding: TP53 -- 12217521 10.1016/S0968-0004(02)02166-7  
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positive PromoterBinding: TP53 -- 11545734 10.1016/S1097-2765(01)00323-9  
 positive PromoterBinding: TP53 -- 11545734 10.1016/S1097-2765(01)00323-9  
 positive PromoterBinding: TP53 -- 11545734 10.1016/S1097-2765(01)00323-9  
 positive PromoterBinding: TP53 -- 11545734 10.1016/S1097-2765(01)00323-9  
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PromoterBinding: PPARG ---> MCL1 29928066 10.1371/journal.ppat.1007100  
PromoterBinding: PPARG ---> MCL1 29928066 10.1371/journal.ppat.1007100  
PromoterBinding: PPARG ---> MCL1 29928066 10.1371/journal.ppat.1007100  
PromoterBinding: PPARG ---> MCL1 607 10.1016/j.tim.2018.08.001  
PromoterBinding: PPARG ---> MCL1 29928066 10.1371/journal.ppat.100710010.1371/journal.p  
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negative Regulation: BIRC7 ---| c28440463 10.3892/or.2017.5584  
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negative Regulation: BIRC7 ---| c23632777 10.3892/i jo.2013.1925  
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Regulation: TP53 ---> chemosensit12890671 10.1074/jbc.M307149200  
Regulation: TP53 ---> chemosensit31614146 10.1016/j.lfs.2019.116933  
Regulation: TP53 ---> chemosensit27681874 10.1016/j.bbcan.2016.09.006  
Regulation: TP53 ---> chemosensit28755993 10.1016/j.ijpharm.2017.07.056  
Regulation: TP53 ---> chemosensit29494959 10.1016/j.biopha.2018.02.066  
Regulation: TP53 ---> chemosensit33785447 10.1016/j.semcancer.2021.03.010  
Regulation: TP53 ---> chemosensit29615301 10.1016/j.dld.2018.02.009  
Regulation: TP53 ---> chemosensit30898612 10.1016/j.jbior.2019.03.002  
Regulation: TP53 ---> chemosensit33451973 10.1016/j.jbior.2020.100780  
Regulation: TP53 ---> chemosensit21211512 10.1016/j.abb.2010.12.034  
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Regulation: TP53 ---> chemosensit19028473 10.1016/j.cbi.2008.10.048  
Regulation: TP53 ---> chemosensit11435891 10.1016/S0022-5347(05)66150-2  
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Regulation: TP53 ---> chemosensit12893182 10.1016/S0090-8258(03)00282-8  
Regulation: TP53 ---> chemosensit15790436 10.1016/j.ygyno.2004.12.053  
Regulation: TP53 ---> chemosensit15790436 10.1016/j.ygyno.2004.12.053  
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Regulation: TP53 ---> chemosensit17875383 10.1016/j.ijom.2007.06.006  
Regulation: TP53 ---> chemosensit16337111 10.1016/j.colsurfb.2005.10.006  
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Regulation: TP53 ---> chemosensit12726865 10.1016/S1535-6108(03)00078-3  
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Regulation: TP53 ---> chemosensit17240826 10.1016/j.thorsurg.2006.08.001  
Regulation: TP53 ---> chemosensit23040255 10.1053/j.seminonc.2012.08.003  
Regulation: TP53 ---> chemosensit23313858 10.1016/j.yexcr.2012.12.025  
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Regulation: TP53 ---> chemosensit25220870 10.1016/j.biochi.2014.09.001  
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 Regulation: TP53 ---> chemosensitivity 10.1016/j.jtcms.2022.01.001  
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 Expression: NOTCH1 ---> TP53 27888063 10.1016/j.biocel.2016.11.013  
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 Expression: NOTCH1 ---> TP53 21723221 10.1053/j.gastro.2011.06.056  
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 Expression: NOTCH1 ---> TP53 24950189 10.1371/journal.pone.0100359  
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 Expression: NOTCH1 ---> TP53 25380967 10.1186/1476-4598-13-247  
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 Expression: NOTCH1 ---> TP53 17186020 10.1038/sj.cdd.4402083  
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 Expression: NOTCH1 ---> TP53 23359069 10.1084/jem.20121527  
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PromoterBinding: TP53 ---> NOTCH120442780 10.1371/journal.pone.0010369  
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positive Expression: MAPK1 --> §11716472 10.1006/abbi.2001.2578  
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positive Expression: MAPK1 --> §19573532 10.1016/j.yjmcc.2009.06.015  
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positive Expression: MAPK1 --> §19664780 10.1016/j.jtcvs.2009.06.024  
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positive Regulation: SPP1 --> M#21703197 10.1016/j.jhep.2011.02.036

positive Regulation: SPP1 --> M#28668580 10.1016/j.jhep.2017.06.020  
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positive Regulation: SPP1 --> M#18632157 10.1016/j.molimm.2008.06.008  
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positive Regulation: SPP1 --> M#18996613 10.1016/j.lungcan.2008.09.003  
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positive Regulation: SPP1 --> M#11872370 10.1016/S1056-8727(01)00189-1  
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positive Regulation: SPP1 --> M# 20828639 10.1016/j.bone.2010.08.02510.1016/j.bone.2010  
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positive Regulation: SPP1 --> M# 29415992 10.1038/s41419-017-0226-x  
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 positive Regulation: SPP1 --> M# 20868520 10. 1186/1476-4598-9-260  
 positive Regulation: SPP1 --> M# 20868520 10. 1186/1476-4598-9-260  
 positive Regulation: SPP1 --> M# 20868520 10. 1186/1476-4598-9-260  
 positive Regulation: SPP1 --> M# 20868520 10. 1186/1476-4598-9-260  
 positive Regulation: SPP1 --> M# 23728342 10. 1038/onc. 2013. 184  
 positive Regulation: SPP1 --> M# 24756245 10. 3892/i jo. 2014. 2393  
 positive Regulation: SPP1 --> M# 24756245 10. 3892/i jo. 2014. 2393  
 positive Regulation: SPP1 --> MAPK1 10. 1161/ATVBAHA. 113. 303017  
 positive Regulation: SPP1 --> M# 26063293 10. 3892/i jmm. 2015. 2243  
 positive Regulation: SPP1 --> M# 26099282 10. 3892/mmr. 2015. 3975  
 positive Regulation: SPP1 --> M# 14704150  
 positive Regulation: SPP1 --> M# 16691505  
 positive Regulation: SPP1 --> M# 19597469 10. 1038/onc. 2009. 189  
 positive Regulation: SPP1 --> M# 20868520 10. 1186/1476-4598-9-260  
 positive Regulation: SPP1 --> M# 20868520 10. 1186/1476-4598-9-260  
 positive Regulation: SPP1 --> M# 28716167 10. 2500/ajra. 2017. 31. 4449  
 positive Regulation: SPP1 --> M# 29065446 10. 3390/i jms18102198  
 positive Regulation: SPP1 --> M# 29223704 10. 1016/j. actbio. 2017. 11. 046  
 positive Regulation: SPP1 --> M# 29500465 10. 1038/s41419-018-0391-6  
 positive Regulation: SPP1 --> M# 29500465 10. 1038/s41419-018-0391-6  
 positive Regulation: SPP1 --> M# 33603163 10. 1038/s41388-021-01663-2  
 positive Regulation: SPP1 --> M# 33603163 10. 1038/s41388-021-01663-2  
 positive Regulation: SPP1 --> MAPK1 10. 1530/ERC-20-0517  
 positive Regulation: SPP1 --> M# 33527556 10. 1002/JLB. 2A0220-127R  
 positive Regulation: SPP1 --> M# 34664250 10. 1007/978-3-030-73119-9\_20  
 positive Regulation: SPP1 --> MAPK1  
 positive Regulation: SPP1 --> MAPK1 10. 1016/j. jceh. 2022. 05. 004  
 positive Regulation: SPP1 --> M# 35580963 10. 1136/gut jnl-2022-327099  
 negative Regulation: AKT1 ---| c# 27038543 10. 1016/j. bbrc. 2016. 03. 141  
 negative Regulation: AKT1 ---| c# 27666600 10. 1016/j. bcp. 2016. 09. 022  
 negative Regulation: AKT1 ---| c# 33011222 10. 1016/j. lfs. 2020. 118513  
 negative Regulation: AKT1 ---| c# 26276725 10. 1016/j. canlet. 2015. 08. 004  
 negative Regulation: AKT1 ---| c# 29753186 10. 1016/j. tranon. 2018. 04. 011  
 negative Regulation: AKT1 ---| c# 22387880 10. 1016/j. regpep. 2012. 02. 003

negative Regulation: AKT1 ---| cf20079806 10.1016/j.bbcan.2010.01.002  
negative Regulation: AKT1 ---| cf22208970 10.1016/j.ijrobp.2011.09.040  
negative Regulation: AKT1 ---| cf19651067 10.1016/j.jamcollsurg.2009.03.006  
negative Regulation: AKT1 ---| cf24184201 10.1016/j.biopha.2013.10.003  
negative Regulation: AKT1 ---| cf21108789  
negative Regulation: AKT1 ---| cf19078992  
negative Regulation: AKT1 ---| cf15150572  
negative Regulation: AKT1 ---| cf12373610  
negative Regulation: AKT1 ---| cf27473470 10.1007/s10571-016-0410-z  
negative Regulation: AKT1 ---| cf28440463 10.3892/or.2017.5584  
negative Regulation: AKT1 ---| cf28849180 10.3892/or.2017.5908  
negative Regulation: AKT1 ---| cf28887606 10.1007/s10616-017-0134-z  
negative Regulation: AKT1 ---| cf30594239 10.1186/s40659-018-0205-4  
negative Regulation: AKT1 ---| chemosensitivity  
negative Regulation: AKT1 ---| cf31665911 10.1177/0963689719885083  
negative Regulation: AKT1 ---| cf31665911 10.1177/0963689719885083  
negative Regulation: AKT1 ---| cf32945500 10.3892/or.2020.7710  
negative Regulation: AKT1 ---| cf33499874 10.1186/s13046-021-01854-5  
negative Regulation: AKT1 ---| cf33591948 10.18632/aging.202488  
negative Regulation: AKT1 ---| cf22873219  
negative Regulation: AKT1 ---| cf22873219  
negative Regulation: AKT1 ---| cf20878074 10.3892/ijo-00000778  
negative Regulation: AKT1 ---| cf21444628 10.1124/jpet.111.179663  
negative Regulation: AKT1 ---| cf22312312 10.3390/ijms13011186  
negative Regulation: AKT1 ---| cf21108789 10.1186/1476-4598-9-305  
negative Regulation: AKT1 ---| cf23743572 10.3892/or.2013.2520  
negative Regulation: AKT1 ---| cf23743572 10.3892/or.2013.2520  
negative Regulation: AKT1 ---| cf23743572 10.3892/or.2013.2520  
negative Regulation: AKT1 ---| cf23613505 10.1177/0300060513480920  
negative Regulation: AKT1 ---| cf24232099 10.1038/cddis.2013.450  
negative Regulation: AKT1 ---| cf24232099 10.1038/cddis.2013.450  
negative Regulation: AKT1 ---| cf24255131 10.1074/mcp.M113.034025  
negative Regulation: AKT1 ---| cf24454800 10.1371/journal.pone.0085113  
negative Regulation: AKT1 ---| cf24104394 10.1038/leu.2013.291  
negative Regulation: AKT1 ---| cf24784001 10.1016/j.neo.2014.03.008  
negative Regulation: AKT1 ---| cf24722292 10.1038/cddis.2014.136  
negative Regulation: AKT1 ---| cf25230779 10.3892/or.2014.3488  
negative Regulation: AKT1 ---| cf25230779 10.3892/or.2014.3488  
negative Regulation: AKT1 ---| cf21273759 10.1159/000322986  
negative Regulation: AKT1 ---| cf21597260 10.1159/000322849  
negative Regulation: AKT1 ---| cf26820593 10.3892/or.2016.4590  
negative Regulation: AKT1 ---| cf27220401 10.3892/or.2016.4820  
negative Regulation: AKT1 ---| cf15150572 10.1038/sj.bjc.6601876  
negative Regulation: AKT1 ---| cf18071906 10.1007/s10495-007-0165-6  
negative Regulation: AKT1 ---| cf18224693 10.1002/ijc.2337110.1002/ijc.23371  
negative Regulation: AKT1 ---| cf19375813 10.1016/j.lungcan.2009.03.01510.1016/j.lungca  
negative Regulation: AKT1 ---| cf19625496 10.1158/1535-7163.MCT-09-014810.1158/1535-716  
negative Regulation: AKT1 ---| cf20944098  
negative Regulation: AKT1 ---| cf21273759 10.1159/00032298610.1159/000322986  
negative Regulation: AKT1 ---| cf21597260 10.1159/00032284910.1159/000322849  
negative Regulation: AKT1 ---| cf23530461 10.1111/ced.1213810.1111/ced.12138  
negative Regulation: AKT1 ---| cf23546174 10.3892/mmr.2013.140010.3892/mmr.2013.1400  
negative Regulation: AKT1 ---| cf26629248  
negative Regulation: AKT1 ---| cf27163202 10.1016/j.yexmp.2016.05.00310.1016/j.yexmp.20

negative Regulation: AKT1 ---| cf 27301639 10.1016/j.bbrc.2016.06.05710.1016/j.bbrc.2016  
 negative Regulation: AKT1 ---| cf 31001468 10.3389/fonc.2019.0018510.3389/fonc.2019.0018  
 negative Regulation: AKT1 ---| cf 32945500 10.3892/or.2020.771010.3892/or.2020.7710  
 negative Regulation: AKT1 ---| cf 33876384 10.1007/s12031-021-01832-8  
 negative Regulation: AKT1 ---| cf 34542810 10.1007/s11427-020-1978-4  
 negative Regulation: AKT1 ---| cf 34792179 10.3892/or.2021.8229  
 negative Regulation: AKT1 ---| cf 35257265 10.1007/s10495-022-01718-z10.1007/s10495-022-  
 negative Regulation: AKT1 ---| cf 35354796 10.1038/s41419-022-04727-7  
 negative Regulation: AKT1 ---| cf 33783376 10.1097/CAD.0000000000001074  
 positive Expression: UCA1 --+> AF 33183321 10.1186/s13000-020-01054-3  
 positive ProtModification: MAPK1 11409876 10.1006/bbrc.2001.5043  
 positive ProtModification: MAPK1 10958792 10.1074/jbc.M004267200  
 positive ProtModification: MAPK1 11821415 10.1074/jbc.M111598200  
 positive ProtModification: MAPK1 11546806 10.1074/jbc.M105669200  
 positive ProtModification: MAPK1 14734651 10.1242/jcs.00897  
 positive ProtModification: MAPK1 15078887 10.1074/jbc.M312135200  
 positive ProtModification: MAPK1 10781582 10.1074/jbc.M001020200  
 positive ProtModification: MAPK1 12890671 10.1074/jbc.M307149200  
 positive ProtModification: MAPK1 15116093 10.1038/sj.onc.1207426  
 positive ProtModification: MAPK1 10547071  
 positive ProtModification: MAPK1 --+> TP53  
 positive ProtModification: MAPK1 --+> TP53  
 positive Regulation: TMEM45A --+> 31585906 10.2741/4823  
 Expression: MAPK1 ---> GCLC 29066411 10.1016/j.fct.2017.10.033  
 Expression: MAPK1 ---> GCLC 26424114 10.1016/j.freeradbiomed.2015.08.011  
 Expression: MAPK1 ---> GCLC 28188924 10.1016/j.freeradbiomed.2017.02.016  
 Expression: MAPK1 ---> GCLC 10.1016/S0006-291X(02)00816-1  
 Expression: MAPK1 ---> GCLC 19328227 10.1016/j.freeradbiomed.2009.03.016  
 Expression: MAPK1 ---> GCLC 19328227 10.1016/j.freeradbiomed.2009.03.016  
 Expression: MAPK1 ---> GCLC 19328227 10.1016/j.freeradbiomed.2009.03.016  
 Expression: MAPK1 ---> GCLC 25201354 10.1016/j.tox.2014.09.002  
 Expression: MAPK1 ---> GCLC 22864849 10.1007/s00204-012-0913-410.1007/s00204-012-0  
 Expression: MAPK1 ---> GCLC 26424114 10.1016/j.freeradbiomed.2015.08.01110.1016/j.  
 positive Expression: CYP2J2 --+> 29427791 10.1016/j.freeradbiomed.2018.02.009  
 positive Expression: MAPK1 --+> N20085809 10.1016/j.mod.2010.01.002  
 positive Expression: MAPK1 --+> N29472716 10.1038/s41418-018-0077-8  
 positive Expression: MAPK1 --+> N29472716 10.1038/s41418-018-0077-8  
 positive Expression: MAPK1 --+> N24392017 10.1371/journal.pone.0085502  
 positive Expression: MAPK1 --+> N32792479 10.1038/s41419-020-02873-4  
 positive Expression: MAPK1 --+> N22787275 10.1091/mbc.E12-02-0132  
 positive Expression: MAPK1 --+> N22646022 10.1139/Y2012-053  
 positive Expression: MAPK1 --+> N23566955 10.1016/j.taap.2013.02.017  
 positive Expression: MAPK1 --+> N22455903 10.1016/j.tice.2012.03.001  
 positive Expression: MAPK1 --+> N17643270 10.1016/j.mod.2007.06.004  
 positive Expression: MAPK1 --+> NOTCH1 10.1016/j.tice.2012.03.001  
 positive Expression: MAPK1 --+> N9390685 10.1016/S1074-7613(00)80382-9  
 positive Expression: MAPK1 --+> N22682244 10.1016/j.cell.2012.03.048  
 positive Expression: MAPK1 --+> N16522205  
 positive Expression: MAPK1 --+> N21552419  
 positive Expression: MAPK1 --+> N25723392 10.1371/journal.pone.0119723  
 positive Expression: MAPK1 --+> N25894826 10.1038/nm.3849  
 positive Expression: MAPK1 --+> NOTCH1  
 negative Regulation: GCLC ---| R 31283930 10.1016/j.bcp.2019.07.001  
 positive Expression: CD274 --+> F 31799599 10.1042/BSR20191041

positive Expression: CD274 --> F31799599 10.1042/BSR20191041  
 positive Expression: CD274 --> F31799599 10.1042/BSR2019104110.1042/BSR20191041  
 Regulation: BECN1 ---> CD274 31503548 10.1172/JCI127721  
 Regulation: BECN1 ---> CD274 33323966 10.1038/s41388-020-01592-6  
 Regulation: NGF ---> chemosensiti9831249 10.1016/S0168-0102(98)00060-1  
 Regulation: NGF ---> chemosensiti11164258 10.1016/S0168-0102(00)00201-7  
 Regulation: NGF ---> chemosensiti29875100 10.2337/db17-1306  
 Regulation: NGF ---> chemosensiti21499209 10.1097/MPA.0b013e318214fb77  
 Regulation: NGF ---> chemosensiti7623122  
 Regulation: NGF ---> chemosensiti7623122  
 Regulation: NGF ---> chemosensitivity  
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 negative Expression: ING4 ---| CI22842937 10.3892/or.2012.1930  
 negative Expression: ING4 ---| CI22842937 10.3892/or.2012.1930  
 negative Expression: ING4 ---| CI20707719 10.1089/cbr.2010.0778  
 negative Expression: ING4 ---| CI21988227 10.1089/cbr.2011.1047  
 negative Expression: ING4 ---| CI21052098 10.1038/cgt.2010.67  
 negative Expression: ING4 ---| CI21052098 10.1038/cgt.2010.67  
 negative Expression: ING4 ---| CI21052098 10.1038/cgt.2010.67  
 negative Expression: ING4 ---| CI21660060 10.1038/cgt.2011.31  
 negative Expression: ING4 ---| CI21052098 10.1038/cgt.2010.6710.1038/cgt.2010.67  
 negative Expression: ING4 ---| CI22842937 10.3892/or.2012.193010.3892/or.2012.1930  
 positive DirectRegulation: KDM5B 27584795 10.1038/cddis.2016.26210.1038/cddis.2016.262  
 positive DirectRegulation: KDM5B 25909289 10.18632/oncotarget.3713  
 positive DirectRegulation: KDM5B 30628696 10.3892/mmr.2019.9832  
 positive DirectRegulation: KDM5B 30728054 10.1186/s13046-019-1063-9  
 positive DirectRegulation: KDM5B 27584795 10.1038/cddis.2016.262  
 positive DirectRegulation: KDM5B 27584795 10.1038/cddis.2016.262  
 positive DirectRegulation: KDM5B 27584795 10.1038/cddis.2016.26210.1038/cddis.2016.262  
 positive DirectRegulation: KDM5B 27584795 10.1038/cddis.2016.262  
 positive DirectRegulation: KDM5B 32868382 10.1158/0008-5472.CAN-20-050510.1158/0008-547  
 positive DirectRegulation: KDM5B --> AKT110.3892/mmr.2019.9832  
 positive DirectRegulation: KDM5B --> AKT110.1186/s13046-019-1063-9  
 positive DirectRegulation: KDM5B 35563264 10.3390/ijms23094874  
 Expression: PPARG ---> MCL1 10.1016/S1074-7613(04)00030-5  
 Expression: PPARG ---> MCL1 25944662 10.1016/j.bbrc.2015.04.023  
 Expression: PPARG ---> MCL1 29928066 10.1371/journal.ppat.100710010.1371/journal.p  
 Expression: PPARG ---> MCL1  
 Expression: PPARG ---> MCL1 607 10.1016/j.tim.2018.08.001  
 PromoterBinding: TP53 ---> DST 16343436 10.1016/j.bbrc.2005.11.118  
 PromoterBinding: TP53 ---> DST 15982302  
 PromoterBinding: TP53 ---> DST  
 negative Expression: PAX8 ---| TF14627715 10.1074/jbc.M306824200  
 negative Expression: PAX8 ---| TF10980123 10.1016/S0002-9440(10)64597-X  
 negative Expression: PAX8 ---| TF16904651 10.1016/j.bcp.2006.06.024  
 negative Expression: PAX8 ---| TF9459485 10.1016/S0167-4889(97)00119-5  
 negative Expression: PAX8 ---| TF14627715  
 negative Expression: PAX8 ---| TF11914272  
 negative Expression: PAX8 ---| TF19139719  
 negative Expression: PAX8 ---| TF29379162 10.1038/s41388-017-0040-z  
 negative Expression: PAX8 ---| TF29379162 10.1038/s41388-017-0040-z  
 negative Expression: PAX8 ---| TF29379162 10.1038/s41388-017-0040-z  
 negative Expression: PAX8 ---| TF29379162 10.1038/s41388-017-0040-z  
 negative Expression: PAX8 ---| TF29379162 10.1038/s41388-017-0040-z

negative Expression: PAX8 ---| TF29997452 10.1186/s12935-018-0591-2  
 negative Expression: PAX8 ---| TF21979593 10.1097/PGP.0b013e31821ac6c3  
 negative Expression: PAX8 ---| TF25083965 10.1097/PGP.0b013e3182a54afa  
 negative Expression: PAX8 ---| TF29379162 10.1038/s41388-017-0040-z10.1038/s41388-017-0  
 negative Expression: PAX8 ---| TF34244607 10.1038/s41388-021-01925-z  
 negative Expression: PAX8 ---| TF34244607 10.1038/s41388-021-01925-z  
 negative Expression: PAX8 ---| TF34244607 10.1038/s41388-021-01925-z  
 negative Expression: PAX8 ---| TF34244607 10.1038/s41388-021-01925-z  
 negative Expression: PAX8 ---| TF23868062 10.1038/cddis.2013.262  
 negative Expression: PAX8 ---| TF21876729 10.1371/journal.pone.0022312  
 negative Expression: PAX8 ---| TF23868062 10.1038/cddis.2013.262  
 negative Expression: PAX8 ---| TF29379162 10.1038/s41388-017-0040-z  
 negative Expression: PAX8 ---| TF29379162 10.1038/s41388-017-0040-z  
 negative Expression: PAX8 ---| TP53 10.1016/j.pneurobio.2011.08.012  
 negative Expression: PAX8 ---| TP53  
 positive Regulation: SPP1 --> AF28359791 10.1016/j.bmcl.2017.03.047  
 positive Regulation: SPP1 --> AF29223704 10.1016/j.actbio.2017.11.046  
 positive Regulation: SPP1 --> AF29410240 10.1016/j.jprot.2018.01.017  
 positive Regulation: SPP1 --> AF20363925 10.2353/ajpath.2010.090810  
 positive Regulation: SPP1 --> AF17537408 10.1016/j.bbrc.2007.05.104  
 positive Regulation: SPP1 --> AF17537408 10.1016/j.bbrc.2007.05.104  
 positive Regulation: SPP1 --> AF19285028 10.1016/j.bbrc.2009.01.157  
 positive Regulation: SPP1 --> AF17306792 10.1016/j.yexcr.2006.12.026  
 positive Regulation: SPP1 --> AF19850036 10.1016/j.yexcr.2009.10.012  
 positive Regulation: SPP1 --> AF19850036 10.1016/j.yexcr.2009.10.012  
 positive Regulation: SPP1 --> AF19850036 10.1016/j.yexcr.2009.10.012  
 positive Regulation: SPP1 --> AF19850036 10.1016/j.yexcr.2009.10.012  
 positive Regulation: SPP1 --> AF19850036 10.1016/j.yexcr.2009.10.012  
 positive Regulation: SPP1 --> AF17977560 10.1016/j.lfs.2007.09.024  
 positive Regulation: SPP1 --> AF18632157 10.1016/j.molimm.2008.06.008  
 positive Regulation: SPP1 --> AF12965255 10.1016/S0165-5728(03)00223-6  
 positive Regulation: SPP1 --> AF21703197 10.1016/j.jhep.2011.02.036  
 positive Regulation: SPP1 --> AF21703197 10.1016/j.jhep.2011.02.036  
 positive Regulation: SPP1 --> AF18996613 10.1016/j.lungcan.2008.09.003  
 positive Regulation: SPP1 --> AF18996613 10.1016/j.lungcan.2008.09.003  
 positive Regulation: SPP1 --> AF21616556 10.1016/j.ejcb.2011.03.005  
 positive Regulation: SPP1 --> AF18694621 10.1016/j.canlet.2008.07.004  
 positive Regulation: SPP1 --> AF22542685 10.1016/j.ijdevneu.2012.04.003  
 positive Regulation: SPP1 --> AF20385232 10.1016/j.matbio.2010.04.001  
 positive Regulation: SPP1 --> AF16406521 10.1016/j.tcb.2005.12.005  
 positive Regulation: SPP1 --> AF16406521 10.1016/j.tcb.2005.12.005  
 positive Regulation: SPP1 --> AF20022267 10.1016/j.urolonc.2009.10.009  
 positive Regulation: SPP1 --> AF22750751 10.1016/j.bbcan.2012.06.005  
 positive Regulation: SPP1 --> AF24657887 10.1016/j.matbio.2014.03.001  
 positive Regulation: SPP1 --> AF24999034 10.1016/j.bbagr.2014.06.020  
 positive Regulation: SPP1 --> AF25749339 10.1016/j.bbrc.2015.02.153  
 positive Regulation: SPP1 --> AF25779039 10.1016/j.brainres.2015.03.015  
 positive Regulation: SPP1 --> AF25779039 10.1016/j.brainres.2015.03.015  
 positive Regulation: SPP1 --> AF26116893 10.1016/j.cca.2015.06.017  
 positive Regulation: SPP1 --> AF25732057 10.1016/j.bbcan.2015.02.003  
 positive Regulation: SPP1 --> AKT1 10.1378/chest.130.4\_MeetingAbstracts.230S-c  
 positive Regulation: SPP1 --> AKT1 10.1378/chest.130.4\_MeetingAbstracts.230S-c  
 positive Regulation: SPP1 --> AF27063991 10.1016/j.lfs.2016.04.003  
 positive Regulation: SPP1 --> AF27063991 10.1016/j.lfs.2016.04.003





positive Regulation: SPP1 --> Af16406521 10.1016/j.tcb.2005.12.005  
positive Regulation: SPP1 --> Af20868520  
positive Regulation: SPP1 --> Af12771144  
positive Regulation: SPP1 --> Af12771144  
positive Regulation: SPP1 --> Af19706414  
positive Regulation: SPP1 --> Af12944477  
positive Regulation: SPP1 --> Af22058329 10.1167/iov.10-7050  
positive Regulation: SPP1 --> Af20868520 10.1186/1476-4598-9-260  
positive Regulation: SPP1 --> Af20868520 10.1186/1476-4598-9-260  
positive Regulation: SPP1 --> Af20868520 10.1186/1476-4598-9-260  
positive Regulation: SPP1 --> Af20868520 10.1186/1476-4598-9-260  
positive Regulation: SPP1 --> Af20868520 10.1186/1476-4598-9-260  
positive Regulation: SPP1 --> Af20868520 10.1186/1476-4598-9-260  
positive Regulation: SPP1 --> Af20868520 10.1186/1476-4598-9-260  
positive Regulation: SPP1 --> Af22444159 10.1186/1756-9966-31-26  
positive Regulation: SPP1 --> Af21273567 10.1161/STROKEAHA.110.599118  
positive Regulation: SPP1 --> Af23508962 10.1074/jbc.M112.432302  
positive Regulation: SPP1 --> Af23630254 10.1073/pnas.1300492110  
positive Regulation: SPP1 --> Af24008322 10.3892/ijmm.2013.1483  
positive Regulation: SPP1 --> Af24008322 10.3892/ijmm.2013.1483  
positive Regulation: SPP1 --> Af24008322 10.3892/ijmm.2013.1483  
positive Regulation: SPP1 --> Af21909361 10.1371/journal.pone.0023831  
positive Regulation: SPP1 --> Af21915300 10.1371/journal.pone.0024217  
positive Regulation: SPP1 --> Af23152823 10.1371/journal.pone.0048933  
positive Regulation: SPP1 --> Af24240095 10.1074/jbc.M113.492314  
positive Regulation: SPP1 --> Af23728336 10.1038/onc.2013.171  
positive Regulation: SPP1 --> Af24714722 10.3892/ijo.2014.2370  
positive Regulation: SPP1 --> Af24714722 10.3892/ijo.2014.2370  
positive Regulation: SPP1 --> Af24714722 10.3892/ijo.2014.2370  
positive Regulation: SPP1 --> Af24810044 10.1038/cddis.2014.174  
positive Regulation: SPP1 --> Af24498111 10.1371/journal.pone.0087464  
positive Regulation: SPP1 --> Af24498111 10.1371/journal.pone.0087464  
positive Regulation: SPP1 --> Af24756245 10.3892/ijo.2014.2393  
positive Regulation: SPP1 --> Af24961145 10.1186/1756-9966-33-53  
positive Regulation: SPP1 --> AKT1 10.1161/ATVBAHA.113.303017  
positive Regulation: SPP1 --> AKT1 10.1530/JOE-14-0203  
positive Regulation: SPP1 --> AKT1 10.1530/JOE-14-0203  
positive Regulation: SPP1 --> AKT1  
positive Regulation: SPP1 --> Af26099282 10.3892/mmr.2015.3975  
positive Regulation: SPP1 --> Af26099282 10.3892/mmr.2015.3975  
positive Regulation: SPP1 --> Af15678124  
positive Regulation: SPP1 --> Af16012053  
positive Regulation: SPP1 --> Af16012053  
positive Regulation: SPP1 --> Af17483319  
positive Regulation: SPP1 --> Af18849546 10.3181/0805-RM-164  
positive Regulation: SPP1 --> Af18849546 10.3181/0805-RM-164  
positive Regulation: SPP1 --> Af18694621 10.1016/j.canlet.2008.07.004  
positive Regulation: SPP1 --> Af18985031 10.1038/mt.2008.235  
positive Regulation: SPP1 --> Af18996613 10.1016/j.lungcan.2008.09.003  
positive Regulation: SPP1 --> Af19597469 10.1038/onc.2009.189  
positive Regulation: SPP1 --> Af19597469 10.1038/onc.2009.189  
positive Regulation: SPP1 --> Af19706414 10.1073/pnas.0903704106  
positive Regulation: SPP1 --> Af19850036 10.1016/j.yexcr.2009.10.012  
positive Regulation: SPP1 --> Af19850036 10.1016/j.yexcr.2009.10.012

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negative PromoterBinding: TP53 --24312426 10.1371/journal.pone.0082494  
negative PromoterBinding: TP53 --29735908 10.3390/ijms19051387  
negative PromoterBinding: TP53 ---| PPARG 10.2741/4475  
negative PromoterBinding: TP53 --28155209 10.1007/s11999-017-5259-z  
negative PromoterBinding: TP53 --21421225 10.1016/j.juro.2010.12.101  
negative PromoterBinding: TP53 --19168033 10.1016/j.bbrc.2009.01.060  
negative PromoterBinding: TP53 --30181511 10.3390/ijms19092622  
positive Regulation: RAC1 --+> M# 32898553 10.1016/j.yexcr.2020.112265  
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positive Regulation: RAC1 --+> M# 17145753 10.1074/jbc.M607989200  
positive Regulation: RAC1 --+> M# 17145753 10.1074/jbc.M607989200  
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positive Regulation: RAC1 --+> MAPK1 10.1016/j.jid.2017.07.075  
positive Regulation: RAC1 --+> M# 29329780 10.1016/j.cellsig.2018.01.004  
positive Regulation: RAC1 --+> M# 29329780 10.1016/j.cellsig.2018.01.004  
positive Regulation: RAC1 --+> M# 29329780 10.1016/j.cellsig.2018.01.004  
positive Regulation: RAC1 --+> M# 29329780 10.1016/j.cellsig.2018.01.004  
positive Regulation: RAC1 --+> M# 31063759 10.1016/j.devcel.2019.04.007  
positive Regulation: RAC1 --+> M# 31063759 10.1016/j.devcel.2019.04.007  
positive Regulation: RAC1 --+> M# 32497487 10.1016/j.devcel.2020.05.011



positive Regulation: RAC1 --> M# 31257073 10.1016/j.ccell.2019.05.015  
positive Regulation: RAC1 --> M# 27070502 10.1016/j.intimp.2016.03.025  
positive Regulation: RAC1 --> M# 27930970 10.1016/j.intimp.2016.10.001  
positive Regulation: RAC1 --> M# 26923603 10.1016/j.celrep.2016.02.016  
positive Regulation: RAC1 --> M# 26923603 10.1016/j.celrep.2016.02.016  
positive Regulation: RAC1 --> M# 26923603 10.1016/j.celrep.2016.02.016  
positive Regulation: RAC1 --> M# 26923603 10.1016/j.celrep.2016.02.016  
positive Regulation: RAC1 --> M# 17568564 10.1016/j.bbrc.2007.05.214  
positive Regulation: RAC1 --> M# 17568564 10.1016/j.bbrc.2007.05.214  
positive Regulation: RAC1 --> M# 15093747 10.1016/j.yexcr.2004.02.002  
positive Regulation: RAC1 --> M# 19852956 10.1016/j.yexcr.2009.10.017  
positive Regulation: RAC1 --> M# 15013523 10.1016/j.canlet.2003.08.035  
positive Regulation: RAC1 --> M# 15893875 10.1016/j.canlet.2005.02.031  
positive Regulation: RAC1 --> M# 9024622 10.1016/S0960-9822(06)00052-2  
positive Regulation: RAC1 --> M# 16595175 10.1016/j.tcb.2006.03.002  
positive Regulation: RAC1 --> M# 24140422 10.1016/j.molcel.2013.09.015  
positive Regulation: RAC1 --> M# 24140422 10.1016/j.molcel.2013.09.015  
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positive Regulation: RAC1 --> M# 25284480 10.1016/j.ccell.2014.08.017  
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positive Regulation: RAC1 --> M# 22617030 10.1016/j.cellsig.2012.05.01110.1016/j.cellsi  
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positive Regulation: RAC1 --> M# 26561781 10.1038/cddis.2015.329  
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positive Regulation: RAC1 --> MAPK1 10.1042/BST20160269  
positive Regulation: RAC1 --> M# 29620286 10.3892/or.2018.6345  
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positive Regulation: RAC1 --> M# 20529870 10.1074/jbc.M109.099655  
positive Regulation: RAC1 --> M# 20529870 10.1074/jbc.M109.099655  
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positive Regulation: RAC1 --> M# 20529870 10.1074/jbc.M109.099655  
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positive Regulation: RAC1 --> M# 20650890 10.1074/jbc.M110.105700  
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positive Regulation: RAC1 --> M# 32471868 10.1074/jbc.RA119.01098110.1074/jbc.RA119.010  
positive Regulation: RAC1 --> M# 27551466 10.1038/cddiscovery.2015.3510.1038/cddiscover  
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positive Regulation: RAC1 --> M# 22519702 10.1042/BJ20120053  
positive Regulation: RAC1 --> M# 22519702 10.1042/BJ20120053  
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positive Regulation: RAC1 --> M# 23337888 10.1038/jid.2013.23  
positive Regulation: RAC1 --> M# 23781022 10.1242/jcs.126714

positive Regulation: RAC1 --> M# 23781022 10.1242/jcs.126714  
positive Regulation: RAC1 --> M# 22701712 10.1371/journal.pone.0038777  
positive Regulation: RAC1 --> M# 22701712 10.1371/journal.pone.0038777  
positive Regulation: RAC1 --> M# 22970259 10.1371/journal.pone.0044590  
positive Regulation: RAC1 --> M# 23734197 10.1371/journal.pone.0064350  
positive Regulation: RAC1 --> M# 24327733 10.1073/pnas.1314124110  
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positive Regulation: RAC1 --> M# 25121739 10.1371/journal.pone.0104746  
positive Regulation: RAC1 --> M# 25121739 10.1371/journal.pone.0104746  
positive Regulation: RAC1 --> M# 27497523 10.1016/j.bbadis.2016.07.019  
positive Regulation: RAC1 --> M# 17568564 10.1016/j.bbrc.2007.05.214  
positive Regulation: RAC1 --> M# 19450605 10.1016/j.yjmcc.2009.05.002  
positive Regulation: RAC1 --> M# 19450605 10.1016/j.yjmcc.2009.05.002  
positive Regulation: RAC1 --> M# 19450605 10.1016/j.yjmcc.2009.05.002  
positive Regulation: RAC1 --> M# 22504301 10.1016/j.bbamcr.2012.03.015  
positive Regulation: RAC1 --> M# 18086571 10.1016/j.bbamcr.2007.10.024  
positive Regulation: RAC1 --> M# 18353489 10.1016/j.ejcb.2008.02.003  
positive Regulation: RAC1 --> M# 21726627 10.1016/j.cellsig.2011.06.014  
positive Regulation: RAC1 --> M# 22061968 10.1016/j.mcn.2011.10.008  
positive Regulation: RAC1 --> M# 22061968 10.1016/j.mcn.2011.10.008  
positive Regulation: RAC1 --> M# 22061968 10.1016/j.mcn.2011.10.008  
positive Regulation: RAC1 --> M# 22061968 10.1016/j.mcn.2011.10.008  
positive Regulation: RAC1 --> M# 15905109 10.1016/j.semcd.2005.03.010  
positive Regulation: RAC1 --> M# 25725286 10.1016/j.cellsig.2015.02.020  
positive Regulation: RAC1 --> M# 26707876 10.1016/j.bbrc.2015.12.056  
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positive Regulation: RAC1 --> M# 11031201  
positive Regulation: RAC1 --> M# 12417261 10.1016/S0006-2952(02)01388-6  
positive Regulation: RAC1 --> M# 19852956 10.1016/j.yexcr.2009.10.017  
positive Regulation: RAC1 --> M# 23639442 10.1016/j.devcel.2013.03.019  
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positive Regulation: RAC1 --> M# 16798728  
positive Regulation: RAC1 --> M# 22494620 10.1186/bcr3164  
positive Regulation: RAC1 --> M# 22494620 10.1186/bcr3164  
positive Regulation: RAC1 --> M# 23093703 10.1210/en.2012-1626  
positive Regulation: RAC1 --> M# 20529870 10.1074/jbc.M109.099655  
positive Regulation: RAC1 --> M# 23446149 10.1189/jlb.0912473  
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positive Regulation: RAC1 --> M# 23657011 10.1073/pnas.1215902110  
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positive Regulation: RAC1 --> M# 23657011 10.1073/pnas.1215902110  
positive Regulation: RAC1 --> M# 24086766 10.1371/journal.pone.0077027  
positive Regulation: RAC1 --> M# 24152593 10.4161/cam.26596  
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positive Regulation: RAC1 --> M#24757372 10.4196/kjpp.2014.18.2.109  
 positive Regulation: RAC1 --> M#24571616 10.1186/1742-4690-11-20  
 positive Regulation: RAC1 --> M#25091805 10.1186/s12929-014-0067-1  
 positive Regulation: RAC1 --> M#25714841 10.1371/journal.pone.0115325  
 positive Regulation: RAC1 --> M#24760984 10.1152/ajpcell.00380.2013  
 positive Regulation: RAC1 --> M#23817184 10.1159/000350108  
 positive Regulation: RAC1 --> M#23817184 10.1159/000350108  
 positive Regulation: RAC1 --> M#23817184 10.1159/000350108  
 positive Regulation: RAC1 --> M#23817184 10.1159/000350108  
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 positive Regulation: RAC1 --> M#17568564  
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 positive Regulation: RAC1 --> M#19450605 10.1016/j.yjmcc.2009.05.002  
 positive Regulation: RAC1 --> M#19450605 10.1016/j.yjmcc.2009.05.002  
 positive Regulation: RAC1 --> M#20175116 10.1002/jcp.22080  
 positive Regulation: RAC1 --> M#20383193 10.1038/onc.2010.95  
 positive Regulation: RAC1 --> M#21660950 10.1002/jcp.22563  
 positive Regulation: RAC1 --> M#22114025 10.1152/ajpendo.00227.2011  
 positive Regulation: RAC1 --> M#23524339 10.1016/j.cellsig.2013.03.011  
 positive Regulation: RAC1 --> M#23817184 10.1159/000350108  
 positive Regulation: RAC1 --> M#25725286 10.1016/j.cellsig.2015.02.020  
 positive Regulation: RAC1 --> M#25136657 10.1155/2014/340271  
 positive Regulation: RAC1 --> M#26379158 10.1371/journal.pone.0138381  
 positive Regulation: RAC1 --> MAPK1  
 positive Regulation: RAC1 --> M#26923603 10.1016/j.celrep.2016.02.016  
 positive Regulation: RAC1 --> M#192 10.1016/j.bbrc.2015.12.056  
 positive Regulation: RAC1 --> MAPK1 10.1074/jbc.M115.681544  
 positive Regulation: RAC1 --> M#28287114 10.1038/cmi.2017.4  
 positive Regulation: RAC1 --> M#28726720 10.3390/ijms1807157410.3390/ijms18071574  
 positive Regulation: RAC1 --> M#29229918 10.1038/s41598-017-15170-610.1038/s41598-017-  
 positive Regulation: RAC1 --> M#29329780 10.1016/j.cellsig.2018.01.00410.1016/j.cellsig  
 positive Regulation: RAC1 --> M#29537337 10.1152/physrev.00025.2017  
 positive Regulation: RAC1 --> M#33685622 10.1074/jbc.RA119.01098110.1074/jbc.RA119.010  
 positive Regulation: RAC1 --> M#33879799 10.1038/s41467-021-22531-3  
 positive Regulation: RAC1 --> M#28571533 10.2174/0929867324666170602082956  
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 positive Regulation: RAC1 --> M#34109430 10.3892/mmr.2021.12207  
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 ProtModification: MAPK1 ---> RAC130062409 10.1007/978-1-4939-8612-5\_9  
 ProtModification: MAPK1 ---> RAC130062409 10.1007/978-1-4939-8612-5\_9  
 ProtModification: MAPK1 ---> RAC130062409 10.1007/978-1-4939-8612-5\_9  
 ProtModification: MAPK1 ---> RAC130062409 10.1007/978-1-4939-8612-5\_9  
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ProtModification: MAPK1 ---> RAC126816343 10.1371/journal.pone.0147103  
ProtModification: MAPK1 ---> RAC126816343 10.1371/journal.pone.0147103  
ProtModification: MAPK1 ---> RAC126816343 10.1371/journal.pone.0147103  
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ProtModification: MAPK1 ---> RAC124043306 10.1128/MCB.00822-1310.1128/MCB.00822-13  
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ProtModification: MAPK1 ---> RAC130062409 10.1007/978-1-4939-8612-5\_910.1007/978-1-4939  
ProtModification: MAPK1 ---> RAC124043306 10.1128/MCB.00822-13  
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positive PromoterBinding: PPARG -34026331 10.1080/2162402X.2021.190650010.1080/2162402X  
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positive PromoterBinding: PPARG -21435906 10.1016/j.healun.2011.01.704  
positive PromoterBinding: PPARG -33766508 10.1016/j.jid.2021.02.748  
positive PromoterBinding: PPARG -33766508 10.1016/j.jid.2021.02.748  
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positive Expression: AKT1 --> M#24333213 10.1016/j.ejphar.2013.12.005  
positive Expression: AKT1 --> M#24333213 10.1016/j.ejphar.2013.12.005  
positive Expression: AKT1 --> M#11535584  
positive Expression: AKT1 --> M#11535584  
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positive Expression: AKT1 --> M/27752996 10.1007/s13277-016-5433-z  
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 Expression: MAPK1 ---> AKT1 22490886 10.1016/j.neulet.2012.03.068  
 Expression: MAPK1 ---> AKT1 23562504 10.1016/j.neulet.2013.02.067  
 Expression: MAPK1 ---> AKT1 24291216 10.1016/j.drudis.2013.11.018  
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 Expression: MAPK1 ---> AKT1 21119656  
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 Expression: MAPK1 ---> AKT1 30621146 10.3390/ijms20010160  
 Expression: MAPK1 ---> AKT1 21904562 10.1155/2012/368196  
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 ProtModification: MAPK1 ---> AKT122880006 10.1371/journal.pone.0042501  
 ProtModification: MAPK1 ---> AKT124423728 10.1038/ncomms4039  
 ProtModification: MAPK1 ---> AKT123193052 10.1152/ajpendo.00409.2012  
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 ProtModification: MAPK1 ---> AKT129369798 10.1016/j.jamcollsurg.2017.12.040  
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 ProtModification: MAPK1 ---> AKT129856035 10.1007/978-1-4939-7825-0\_25  
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negative Regulation: NOTCH1 ---| 32913140 10.1124/MOLPHARM.120.000006  
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positive PromoterBinding: PPARG -29928066 10.1371/journal.ppat.1007100  
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 Regulation: NOTCH1 ---> MAPK1 21768114 10.1074/jbc.M111.232413  
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 Regulation: NOTCH1 ---> MAPK1 25194568 10.1038/nm.3678  
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 Regulation: NOTCH1 ---> MAPK1 27578780 10.1242/dev.137919  
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 Regulation: GPER1 ---> TP53 26225773 10.1038/cddis.2015.201  
 Regulation: GPER1 ---> TP53 28595943 10.1016/j.jsbmb.2017.05.005  
 Regulation: GPER1 ---> TP53 25275589 10.1038/cddis.2014.398  
 Regulation: GPER1 ---> TP53 25275589 10.1038/cddis.2014.398  
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 Regulation: TP53 ---> MAPK1 27616194 10.1016/j.bbrc.2016.09.035  
 Regulation: TP53 ---> MAPK1 27616194 10.1016/j.bbrc.2016.09.035  
 Regulation: TP53 ---> MAPK1 27616194 10.1016/j.bbrc.2016.09.035  
 Regulation: TP53 ---> MAPK1 27616194 10.1016/j.bbrc.2016.09.035  
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 Regulation: TP53 ---> MAPK1 29852310 10.1016/j.bioorg.2018.05.020  
 Regulation: TP53 ---> MAPK1 32738450 10.1016/j.jhep.2020.07.036  
 Regulation: TP53 ---> MAPK1 29232553 10.1016/j.ccell.2017.11.003  
 Regulation: TP53 ---> MAPK1 29232553 10.1016/j.ccell.2017.11.003  
 Regulation: TP53 ---> MAPK1 29232553 10.1016/j.ccell.2017.11.003  
 Regulation: TP53 ---> MAPK1 31269434 10.1016/j.celrep.2019.06.004  
 Regulation: TP53 ---> MAPK1 32075732 10.1016/j.celrep.2020.01.074  
 Regulation: TP53 ---> MAPK1 33812333 10.1016/j.redox.2021.101924  
 Regulation: TP53 ---> MAPK1 19497412 10.1016/j.cbi.2009.03.012  
 Regulation: TP53 ---> MAPK1 17208232 10.1016/j.febslet.2006.12.035  
 Regulation: TP53 ---> MAPK1 17208232 10.1016/j.febslet.2006.12.035  
 Regulation: TP53 ---> MAPK1 17208232 10.1016/j.febslet.2006.12.035  
 Regulation: TP53 ---> MAPK1 17208232 10.1016/j.febslet.2006.12.035  
 Regulation: TP53 ---> MAPK1 18448277 10.1016/j.toxlet.2008.03.012  
 Regulation: TP53 ---> MAPK1 16814113 10.1016/j.freeradbiomed.2006.04.019  
 Regulation: TP53 ---> MAPK1 16814113 10.1016/j.freeradbiomed.2006.04.019  
 Regulation: TP53 ---> MAPK1 18295447 10.1016/j.cellsig.2007.12.020  
 Regulation: TP53 ---> MAPK1 18396012 10.1016/j.cellsig.2008.02.012  
 Regulation: TP53 ---> MAPK1 18440285 10.1016/j.dnarep.2008.03.003  
 Regulation: TP53 ---> MAPK1 22921303 10.1016/j.lfs.2012.08.012  
 Regulation: TP53 ---> MAPK1 22921303 10.1016/j.lfs.2012.08.012  
 Regulation: TP53 ---> MAPK1 22796517 10.1016/j.pharmthera.2012.07.003  
 Regulation: TP53 ---> MAPK1 22749133 10.1016/j.jnutbio.2012.01.012  
 Regulation: TP53 ---> MAPK1 23108049 10.1016/j.febslet.2012.10.031  
 Regulation: TP53 ---> MAPK1 23583409 10.1016/j.bbrc.2013.03.124  
 Regulation: TP53 ---> MAPK1 23870914 10.1016/j.foodchem.2013.05.021  
 Regulation: TP53 ---> MAPK1 25190107 10.1016/j.acthis.2014.08.005  
 Regulation: TP53 ---> MAPK1 25459512 10.1016/j.bbagen.2014.10.008  
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Regulation: TP53 ---> MAPK1 22336915 10.4161/cc.11.5.19452  
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 Regulation: TP53 ---> MAPK1 24114360 10.1007/s10495-013-0913-8  
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 Regulation: TP53 ---> MAPK1 24867259 10.3892/ijo.2014.2463  
 Regulation: TP53 ---> MAPK1 23873029 10.1038/onc.2013.287  
 Regulation: TP53 ---> MAPK1 25268131 10.1371/journal.pone.0106812  
 Regulation: TP53 ---> MAPK1 10.1074/jbc.M114.590943  
 Regulation: TP53 ---> MAPK1 10.1074/jbc.M114.590943  
 Regulation: TP53 ---> MAPK1 10.1074/jbc.M114.590943  
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 Regulation: TP53 ---> MAPK1 22740414 10.1128/JVI.06279-11  
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 Regulation: TP53 ---> MAPK1 25815718 10.1371/journal.pone.0119366  
 Regulation: TP53 ---> MAPK1 25815718 10.1371/journal.pone.0119366  
 Regulation: TP53 ---> MAPK1 15150542 10.1038/sj.cdd.4401368  
 Regulation: TP53 ---> MAPK1 15150542 10.1038/sj.cdd.4401368  
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 Regulation: TP53 ---> MAPK1 22039050 10.1074/jbc.M111.265397  
 Regulation: TP53 ---> MAPK1 23108049 10.1016/j.febslet.2012.10.031  
 Regulation: TP53 ---> MAPK1 23314357 10.3892/ijo.2013.1764  
 Regulation: TP53 ---> MAPK1 23559009 10.1038/cddis.2013.97  
 Regulation: TP53 ---> MAPK1 24486524 10.1016/j.bcp.2014.01.025  
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 Regulation: TP53 ---> MAPK1 10.1007/s11055-016-0342-6  
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 Regulation: TP53 ---> MAPK1 29852310 10.1016/j.bioorg.2018.05.02010.1016/j.bioorg.  
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 Regulation: TP53 ---> MAPK1 31670863 10.1002/1878-0261.1259310.1002/1878-0261.1259  
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 Expression: MAPK1 ----> TP53 24866016 10.1371/journal.pone.0098113  
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 ProtModification: MAPK1 ----> TP53 10958792 10.1074/jbc.M004267200  
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 ProtModification: MAPK1 ----> TP53 33246174 10.1016/j.phrs.2020.105307  
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 ProtModification: MAPK1 ----> TP53 21679689 10.1016/j.bbrc.2011.06.016

ProtModification: MAPK1 ---> TP53:11996883 10.1016/S0006-2952(02)00908-5  
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DirectRegulation: ING4 ---> TP53 27544390 10.1007/s00432-016-2219-z  
DirectRegulation: ING4 ---> TP53 26803518 10.1007/s13277-016-4842-3

DirectRegulation: ING4 ---> TP53 16024799  
DirectRegulation: ING4 ---> TP53 17646389  
DirectRegulation: ING4 ---> TP53 16520380  
DirectRegulation: ING4 ---> TP53 26072331 10.1016/j.expchem.2015.05.010  
DirectRegulation: ING4 ---> TP53 24333729 10.1016/j.canlet.2013.11.016  
DirectRegulation: ING4 ---> TP53 23603392 10.1016/j.febslet.2013.04.004  
DirectRegulation: ING4 ---> TP53 23603392 10.1016/j.febslet.2013.04.004  
DirectRegulation: ING4 ---> TP53 15743678 10.1016/j.biocel.2004.09.008  
DirectRegulation: ING4 ---> TP53 22366145 10.1016/j.jbspin.2012.01.008  
DirectRegulation: ING4 ---> TP53 22366145 10.1016/j.jbspin.2012.01.008  
DirectRegulation: ING4 ---> TP53 18571892 10.1016/j.biopha.2008.04.006  
DirectRegulation: ING4 ---> TP53 14572637 10.1016/S0014-5793(03)01024-X  
DirectRegulation: ING4 ---> TP53 18775696 10.1016/j.yexcr.2008.08.002  
DirectRegulation: ING4 ---> TP53 18775696 10.1016/j.yexcr.2008.08.002  
DirectRegulation: ING4 ---> TP53 15748897 10.1016/j.yexcr.2004.11.023  
DirectRegulation: ING4 ---> TP53 15882981 10.1016/j.bbrc.2005.04.023  
DirectRegulation: ING4 ---> TP53 28844713 10.1016/j.canlet.2017.08.019  
DirectRegulation: ING4 ---> TP53 21454715 10.1074/jbc.M111.230961  
DirectRegulation: ING4 ---> TP53 21454715 10.1074/jbc.M111.230961  
DirectRegulation: ING4 ---> TP53 21454715 10.1074/jbc.M111.230961  
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DirectRegulation: ING4 ---> TP53 21454715 10.1074/jbc.M111.230961  
DirectRegulation: ING4 ---> TP53 21454715 10.1074/jbc.M111.230961  
DirectRegulation: ING4 ---> TP53 21454715 10.1074/jbc.M111.230961  
DirectRegulation: ING4 ---> TP53 21454715 10.1074/jbc.M111.230961  
DirectRegulation: ING4 ---> TP53 21454715 10.1074/jbc.M111.230961  
DirectRegulation: ING4 ---> TP53 21454715 10.1074/jbc.M111.230961  
DirectRegulation: ING4 ---> TP53 21454715 10.1074/jbc.M111.230961  
DirectRegulation: ING4 ---> TP53 21454715 10.1074/jbc.M111.230961  
DirectRegulation: ING4 ---> TP53 16520380 10.1074/jbc.M511309200  
DirectRegulation: ING4 ---> TP53 15882981 10.1016/j.bbrc.2005.04.023  
DirectRegulation: ING4 ---> TP53 15882981 10.1016/j.bbrc.2005.04.023  
DirectRegulation: ING4 ---> TP53 15882981 10.1016/j.bbrc.2005.04.023  
DirectRegulation: ING4 ---> TP53 12750254  
DirectRegulation: ING4 ---> TP53 12750254  
DirectRegulation: ING4 ---> TP53 26530780 10.3892/or.2015.4385  
DirectRegulation: ING4 ---> TP53 21177815 10.1128/JVI.02279-10  
DirectRegulation: ING4 ---> TP53 21177815 10.1128/JVI.02279-10  
DirectRegulation: ING4 ---> TP53 21177815 10.1128/JVI.02279-10  
DirectRegulation: ING4 ---> TP53 21177815 10.1128/JVI.02279-10  
DirectRegulation: ING4 ---> TP53 21177815 10.1128/JVI.02279-10  
DirectRegulation: ING4 ---> TP53 23967213 10.1371/journal.pone.0071453  
DirectRegulation: ING4 ---> TP53 23967213 10.1371/journal.pone.0071453  
DirectRegulation: ING4 ---> TP53 23967213 10.1371/journal.pone.0071453  
DirectRegulation: ING4 ---> TP53 23967213 10.1371/journal.pone.0071453  
DirectRegulation: ING4 ---> TP53 23967213 10.1371/journal.pone.0071453  
DirectRegulation: ING4 ---> TP53 23967213 10.1371/journal.pone.0071453  
DirectRegulation: ING4 ---> TP53 23967213 10.1371/journal.pone.0071453  
DirectRegulation: ING4 ---> TP53 23967213 10.1371/journal.pone.0071453  
DirectRegulation: ING4 ---> TP53 23969950 10.3892/or.2013.2671  
DirectRegulation: ING4 ---> TP53 20534538 10.1073/pnas.0912116107  
DirectRegulation: ING4 ---> TP53 22228137 10.1007/s00432-011-1099-5  
DirectRegulation: ING4 ---> TP53 21454715 10.1074/jbc.M111.230961  
DirectRegulation: ING4 ---> TP53 21454715 10.1074/jbc.M111.230961



DirectRegulation: ING4 ---> TP53 30643005 10.1042/BSR20180773  
DirectRegulation: ING4 ---> TP53 29489009 10.14670/HH-11-979  
DirectRegulation: ING4 ---> TP53 27544390 10.1007/s00432-016-2219-z  
DirectRegulation: ING4 ---> TP53 17954561  
DirectRegulation: ING4 ---> TP53 17954561  
DirectRegulation: ING4 ---> TP53 15528276  
DirectRegulation: ING4 ---> TP53 20534538  
DirectRegulation: ING4 ---> TP53 16520380  
DirectRegulation: ING4 ---> TP53 23603392 10.1016/j.febslet.2013.04.004  
DirectRegulation: ING4 ---> TP53 19903538 10.1016/j.arr.2009.11.001  
DirectRegulation: ING4 ---> TP53 16387653 10.1016/j.molcel.2005.12.007  
DirectRegulation: ING4 ---> TP53 15935570 10.1016/j.gene.2005.02.014  
DirectRegulation: ING4 ---> TP53 15251430 10.1016/j.febslet.2004.06.010  
DirectRegulation: ING4 ---> TP53 15251430 10.1016/j.febslet.2004.06.010  
DirectRegulation: ING4 ---> TP53 18775696 10.1016/j.yexcr.2008.08.002  
DirectRegulation: ING4 ---> TP53 18775696 10.1016/j.yexcr.2008.08.002  
DirectRegulation: ING4 ---> TP53 15748897 10.1016/j.yexcr.2004.11.023  
DirectRegulation: ING4 ---> TP53 15882981 10.1016/j.bbrc.2005.04.023  
DirectRegulation: ING4 ---> TP53 15882981 10.1016/j.bbrc.2005.04.023  
DirectRegulation: ING4 ---> TP53 15882981 10.1016/j.bbrc.2005.04.023  
DirectRegulation: ING4 ---> TP53 15882981 10.1016/j.bbrc.2005.04.023  
DirectRegulation: ING4 ---> TP53 15882981 10.1016/j.bbrc.2005.04.023  
DirectRegulation: ING4 ---> TP53 15882981 10.1016/j.bbrc.2005.04.023  
DirectRegulation: ING4 ---> TP53 15882981 10.1016/j.bbrc.2005.04.023  
DirectRegulation: ING4 ---> TP53 15882981 10.1016/j.bbrc.2005.04.023  
DirectRegulation: ING4 ---> TP53 15882981 10.1016/j.bbrc.2005.04.023  
DirectRegulation: ING4 ---> TP53 21454715 10.1074/jbc.M111.230961  
DirectRegulation: ING4 ---> TP53 21454715 10.1074/jbc.M111.230961  
DirectRegulation: ING4 ---> TP53 16520380 10.1074/jbc.M511309200  
DirectRegulation: ING4 ---> TP53 23967213 10.1371/journal.pone.007145310.1371/journal.p  
DirectRegulation: ING4 ---> TP53 21454715 10.1074/jbc.M111.23096110.1074/jbc.M111.23096  
DirectRegulation: ING4 ---> TP53 21454715 10.1074/jbc.M111.23096110.1074/jbc.M111.23096  
DirectRegulation: ING4 ---> TP53 21454715 10.1074/jbc.M111.23096110.1074/jbc.M111.23096  
DirectRegulation: ING4 ---> TP53 21177815 10.1128/JVI.02279-1010.1128/JVI.02279-10  
DirectRegulation: ING4 ---> TP53 34261347 10.1161/CIRCRESAHA.120.318364  
DirectRegulation: ING4 ---> TP53 34569542 10.1159/000518414  
DirectRegulation: ING4 ---> TP53 34569542 10.1159/000518414  
positive Expression: ING4 --> TF 33433356 10.1016/j.biopha.2020.111078  
positive Expression: ING4 --> TF 22436625 10.1016/j.humpath.2011.11.018  
positive Expression: ING4 --> TF 26803518 10.1007/s13277-016-4842-3  
positive Expression: ING4 --> TF 19895734  
positive Expression: ING4 --> TF 23967213 10.1371/journal.pone.0071453  
positive Expression: ING4 --> TF 23967213 10.1371/journal.pone.0071453  
positive Expression: ING4 --> TF 21177815 10.1128/JVI.02279-10  
positive Expression: ING4 --> TF 17594054 10.1007/s11060-007-9421-4  
positive Expression: ING4 --> TF 19895734 10.5732/cjc.009.10311  
positive Expression: ING4 --> TF 27806345 10.18632/oncotarget.1298410.18632/oncotarget.  
positive Expression: ING4 --> TF 23603392 10.1016/j.febslet.2013.04.004  
positive Expression: ING4 --> TF 27421660 10.1093/abbs/gmw06210.1093/abbs/gmw062  
positive Expression: ING4 --> TF 23603392 10.1016/j.febslet.2013.04.004  
positive Expression: ING4 --> TP53  
positive Expression: ING4 --> TF 35075768 10.1111/jcmm.1719210.1111/jcmm.17192  
positive Expression: NOTCH1 --> 28677782 10.3892/mmr.2017.6878  
positive Expression: NOTCH1 --> 28677782 10.3892/mmr.2017.687810.3892/mmr.2017.6878



ProtModification: AKT1 ---> PRPH 18502206 10.1016/j.febslet.2008.04.064  
 ProtModification: AKT1 ---> PRPH 17569669  
 ProtModification: AKT1 ---> PRPH 17569669  
 ProtModification: AKT1 ---> PRPH 17569669  
 ProtModification: AKT1 ---> PRPH 17569669  
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 ProtModification: AKT1 ---> PRPH 17569669  
 ProtModification: AKT1 ---> PRPH 17569669  
 ProtModification: AKT1 ---> PRPH 17569669 10.1074/jbc.M611703200  
 ProtModification: AKT1 ---> PRPH 36499746 10.3390/ijms232315416  
 Binding: BECN1 ---- RAC1 22393062 10.1074/jbc.M112.348375  
 Binding: BECN1 ---- RAC1 22393062 10.1074/jbc.M112.348375  
 Binding: BECN1 ---- RAC1 22393062 10.1074/jbc.M112.348375  
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 Binding: BECN1 ---- RAC1 22393062 10.1074/jbc.M112.348375  
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 positive Expression: RAC1 --> BF32913260 10.1038/s41419-020-02951-7  
 positive Expression: RAC1 --> BF32913260 10.1038/s41419-020-02951-710.1038/s41419-020-  
 positive Regulation: GPER1 --> M30360801 10.1016/j.amjms.2018.06.009  
 positive Regulation: GPER1 --> M29964007 10.1016/j.yhbeh.2018.06.012  
 positive Regulation: GPER1 --> M15090535 10.1074/jbc.M403588200  
 positive Regulation: GPER1 --> M29378226 10.1016/j.steroids.2018.01.010  
 positive Regulation: GPER1 --> M33711400 10.1016/j.neuint.2021.105011  
 positive Regulation: GPER1 --> M27519631 10.1016/j.mce.2016.08.011  
 positive Regulation: GPER1 --> M27940299 10.1016/j.mce.2016.12.007  
 positive Regulation: GPER1 --> M27940299 10.1016/j.mce.2016.12.007  
 positive Regulation: GPER1 --> M27773847 10.1016/j.mce.2016.10.020  
 positive Regulation: GPER1 --> M27773847 10.1016/j.mce.2016.10.020  
 positive Regulation: GPER1 --> M28736254 10.1016/j.mce.2017.07.016  
 positive Regulation: GPER1 --> M32777349 10.1016/j.neulet.2020.135299  
 positive Regulation: GPER1 --> M32325111 10.1016/j.tiv.2020.104871  
 positive Regulation: GPER1 --> M32325111 10.1016/j.tiv.2020.104871  
 positive Regulation: GPER1 --> M32325111 10.1016/j.tiv.2020.104871  
 positive Regulation: GPER1 --> M27369115 10.1016/j.jsbmb.2016.06.014  
 positive Regulation: GPER1 --> M28465157 10.1016/j.jsbmb.2017.04.012  
 positive Regulation: GPER1 --> M28465157 10.1016/j.jsbmb.2017.04.012  
 positive Regulation: GPER1 --> M26482875 10.1016/j.tem.2015.09.002  
 positive Regulation: GPER1 --> M26482875 10.1016/j.tem.2015.09.002  
 positive Regulation: GPER1 --> M27423484 10.1016/j.jphs.2016.06.005  
 positive Regulation: GPER1 --> M33161112 10.1016/j.etap.2020.103544  
 positive Regulation: GPER1 --> M31394165 10.1016/j.bbalip.2019.08.001  
 positive Regulation: GPER1 --> M32791253 10.1016/j.cbpc.2020.108868  
 positive Regulation: GPER1 --> M20875808 10.1016/j.brainres.2010.09.069  
 positive Regulation: GPER1 --> M22285849 10.1016/j.steroids.2011.12.023  
 positive Regulation: GPER1 --> M22198527 10.1016/j.steroids.2011.11.011  
 positive Regulation: GPER1 --> M17011908 10.1016/j.surg.2006.07.007  
 positive Regulation: GPER1 --> M11744082 10.1016/S0165-0173(01)00114-X

positive Regulation: GPER1 --> M17931703 10.1016/j.brainresrev.2007.07.020  
positive Regulation: GPER1 --> M17222505 10.1016/j.mce.2006.12.010  
positive Regulation: GPER1 --> M20138962 10.1016/j.mce.2010.02.006  
positive Regulation: GPER1 --> M20138962 10.1016/j.mce.2010.02.006  
positive Regulation: GPER1 --> M20138962 10.1016/j.mce.2010.02.006  
positive Regulation: GPER1 --> M18556135 10.1016/j.neuroscience.2008.05.001  
positive Regulation: GPER1 --> M11897506 10.1016/S0960-0760(01)00190-X  
positive Regulation: GPER1 --> M16019207 10.1016/j.jsbmb.2005.05.006  
positive Regulation: GPER1 --> M19442754 10.1016/j.prostaglandins.2009.05.001  
positive Regulation: GPER1 --> M19442754 10.1016/j.prostaglandins.2009.05.001  
positive Regulation: GPER1 --> M22917634 10.1016/j.steroids.2012.07.019  
positive Regulation: GPER1 --> M23219795 10.1016/j.ejphar.2012.11.042  
positive Regulation: GPER1 --> M23385013 10.1016/j.steroids.2012.12.015  
positive Regulation: GPER1 --> M23402905 10.1016/j.ygyno.2013.02.005  
positive Regulation: GPER1 --> M23085545 10.1016/j.brainresbull.2012.10.004  
positive Regulation: GPER1 --> M23466742 10.1016/j.phrs.2013.02.008  
positive Regulation: GPER1 --> M23545157 10.1016/j.mce.2013.03.018  
positive Regulation: GPER1 --> M23419549 10.1016/j.neuroscience.2013.02.005  
positive Regulation: GPER1 --> M24161432 10.1016/j.cbi.2013.10.014  
positive Regulation: GPER1 --> M24240011 10.1016/j.steroids.2013.11.004  
positive Regulation: GPER1 --> M24240011 10.1016/j.steroids.2013.11.004  
positive Regulation: GPER1 --> M24240011 10.1016/j.steroids.2013.11.004  
positive Regulation: GPER1 --> M24239983 10.1016/j.mce.2013.11.005  
positive Regulation: GPER1 --> M23907016 10.1016/j.jsbmb.2013.07.011  
positive Regulation: GPER1 --> M23907016 10.1016/j.jsbmb.2013.07.011  
positive Regulation: GPER1 --> M23907016 10.1016/j.jsbmb.2013.07.011  
positive Regulation: GPER1 --> M24560890 10.1016/j.yhbeh.2014.02.004  
positive Regulation: GPER1 --> M24560890 10.1016/j.yhbeh.2014.02.004  
positive Regulation: GPER1 --> M24530924 10.1016/j.mce.2014.02.002  
positive Regulation: GPER1 --> M24594140 10.1016/j.mce.2014.01.024  
positive Regulation: GPER1 --> M24495410 10.1016/j.toxlet.2014.01.035  
positive Regulation: GPER1 --> M25263582 10.1016/j.expneurol.2014.09.011  
positive Regulation: GPER1 --> M25173820 10.1016/j.steroids.2014.08.013  
positive Regulation: GPER1 --> M29365274 10.1152/AJPCELL.00152.2017  
positive Regulation: GPER1 --> M29365274 10.1152/AJPCELL.00152.2017  
positive Regulation: GPER1 --> M34445359 10.3390/ijms22168654  
positive Regulation: GPER1 --> M34182071 10.1016/j.freeradbiomed.2021.06.02510.1016/j.  
positive Regulation: GPER1 --> M22251451 10.1186/bcr3096  
positive Regulation: GPER1 --> M19741198 10.1152/ajpcell.00185.200910.1152/ajpcell.001  
positive Regulation: GPER1 --> M852 10.1016/j.jphs.2016.06.005  
positive Regulation: GPER1 --> MAPK1 10.1016/j.steroids.2011.12.023  
positive Regulation: GPER1 --> M24835924 10.1016/j.mce.2014.05.005  
positive Regulation: GPER1 --> M25150623 10.1016/j.mce.2014.07.023  
positive Regulation: GPER1 --> M25150623 10.1016/j.mce.2014.07.023  
positive Regulation: GPER1 --> M25150623 10.1016/j.mce.2014.07.023  
positive Regulation: GPER1 --> M25312822 10.1016/j.biopha.2014.09.003  
positive Regulation: GPER1 --> M24930125 10.1016/j.etap.2014.05.007  
positive Regulation: GPER1 --> M26006730 10.1016/j.taap.2015.05.010  
positive Regulation: GPER1 --> MAPK1 10.1016/j.biopha.2015.07.031  
positive Regulation: GPER1 --> M25766520 10.1016/j.jsbmb.2015.02.008  
positive Regulation: GPER1 --> M17308128 10.1158/0008-5472.CAN-06-2909  
positive Regulation: GPER1 --> M20138962 10.1016/j.mce.2010.02.00610.1016/j.mce.2010.0  
positive Regulation: GPER1 --> M23907016 10.1016/j.jsbmb.2013.07.01110.1016/j.jsbmb.20  
positive Regulation: GPER1 --> M25847233 10.1074/jbc.M114.62874310.1074/jbc.M114.62874





positive Regulation: GPER1 --> M12446589  
positive Regulation: GPER1 --> M12446589  
positive Regulation: GPER1 --> M12446589  
positive Regulation: GPER1 --> M12446589  
positive Regulation: GPER1 --> M12446589  
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positive Regulation: GPER1 --> M12193550  
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positive Regulation: GPER1 --> M15090535  
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positive Regulation: GPER1 --> M19357782  
positive Regulation: GPER1 --> M19079715  
positive Regulation: GPER1 --> M22414008  
positive Regulation: GPER1 --> M22495674 10. 1210/en. 2012-1061  
positive Regulation: GPER1 --> MAPK1  
positive Regulation: GPER1 --> M23163984 10. 1186/1757-2215-5-35  
positive Regulation: GPER1 --> M23163984 10. 1186/1757-2215-5-35  
positive Regulation: GPER1 --> M23232940 10. 3892/or. 2012. 2180  
positive Regulation: GPER1 --> M23273253 10. 1186/1471-2407-12-624  
positive Regulation: GPER1 --> M19818165 10. 1186/bcr2361  
positive Regulation: GPER1 --> M21149639 10. 1124/mol. 110. 069500  
positive Regulation: GPER1 --> M21303939 10. 1210/en. 2010-1368  
positive Regulation: GPER1 --> M21303939 10. 1210/en. 2010-1368  
positive Regulation: GPER1 --> M21303939 10. 1210/en. 2010-1368  
positive Regulation: GPER1 --> M21303939 10. 1210/en. 2010-1368  
positive Regulation: GPER1 --> M21303939 10. 1210/en. 2010-1368  
positive Regulation: GPER1 --> M21303939 10. 1210/en. 2010-1368  
positive Regulation: GPER1 --> M21372633 10. 4161/cbt. 11. 8. 15272  
positive Regulation: GPER1 --> M21673097 10. 1210/en. 2011-0091  
positive Regulation: GPER1 --> M21673097 10. 1210/en. 2011-0091  
positive Regulation: GPER1 --> M21673097 10. 1210/en. 2011-0091  
positive Regulation: GPER1 --> M21673097 10. 1210/en. 2011-0091  
positive Regulation: GPER1 --> M22355098 10. 1530/JME-11-0145  
positive Regulation: GPER1 --> MAPK1 10. 1186/bcr3096  
positive Regulation: GPER1 --> MAPK1 10. 1186/bcr3096  
positive Regulation: GPER1 --> M21930911 10. 1073/pnas. 1102821108  
positive Regulation: GPER1 --> M20661136 10. 1097/FBP. 0b013e32833da5c3  
positive Regulation: GPER1 --> M21242460 10. 1161/HYPERTENSIONAHA. 110. 161653  
positive Regulation: GPER1 --> M21242460 10. 1161/HYPERTENSIONAHA. 110. 161653  
positive Regulation: GPER1 --> M21242460 10. 1161/HYPERTENSIONAHA. 110. 161653  
positive Regulation: GPER1 --> M21242460 10. 1161/HYPERTENSIONAHA. 110. 161653  
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positive Regulation: GPER1 --> M23460719 10.1210/er.2012-1055  
positive Regulation: GPER1 --> M23756388  
positive Regulation: GPER1 --> M23610132 10.1210/en.2012-2119  
positive Regulation: GPER1 --> M23519092 10.1097/MED.0b013e328360c200  
positive Regulation: GPER1 --> M23590758 10.2174/1566524011313060015  
positive Regulation: GPER1 --> M23590758 10.2174/1566524011313060015  
positive Regulation: GPER1 --> M20203690 10.1038/cdd.2010.20  
positive Regulation: GPER1 --> M20203690 10.1038/cdd.2010.20  
positive Regulation: GPER1 --> M20203690 10.1038/cdd.2010.20  
positive Regulation: GPER1 --> M20203690 10.1038/cdd.2010.20  
positive Regulation: GPER1 --> M20203690 10.1038/cdd.2010.20  
positive Regulation: GPER1 --> M20203690 10.1038/cdd.2010.20  
positive Regulation: GPER1 --> M20203690 10.1038/cdd.2010.20  
positive Regulation: GPER1 --> M22167233 10.1038/jcbfm.2011.179  
positive Regulation: GPER1 --> M22492045 10.1523/JNEUROSCI.5828-11.2012  
positive Regulation: GPER1 --> M22492045 10.1523/JNEUROSCI.5828-11.2012  
positive Regulation: GPER1 --> M22492045 10.1523/JNEUROSCI.5828-11.2012  
positive Regulation: GPER1 --> M22492045 10.1523/JNEUROSCI.5828-11.2012  
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positive Regulation: GPER1 --> M22552965 10.1289/ehp.1104526  
positive Regulation: GPER1 --> M22552965 10.1289/ehp.1104526  
positive Regulation: GPER1 --> M23840305 10.1371/journal.pone.0064771  
positive Regulation: GPER1 --> M24136233 10.1038/cddis.2013.397  
positive Regulation: GPER1 --> M24343167 10.1007/s11906-013-0408-6  
positive Regulation: GPER1 --> M24481325 10.1530/ERC-13-0237  
positive Regulation: GPER1 --> M25251996 10.1146/annurev-pharmtox-010814-124302  
positive Regulation: GPER1 --> M23283935 10.1152/ajpccell.00203.2012  
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positive Regulation: GPER1 --> M25275589 10.1038/cddis.2014.398  
positive Regulation: GPER1 --> M25275589 10.1038/cddis.2014.398  
positive Regulation: GPER1 --> M25275589 10.1038/cddis.2014.398  
positive Regulation: GPER1 --> M25275589 10.1038/cddis.2014.398  
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positive Regulation: GPER1 --> M20875696 10.1016/j.envpol.2010.09.004  
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positive Regulation: GPER1 --> M25805831 10.1096/fj.14-265603  
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positive Regulation: GPER1 --> M26069273 10.1530/JME-15-0086  
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 positive Regulation: STC2 --> M27878259 10.3892/mmr.2016.595110.3892/mmr.2016.5951  
 Regulation: PPARG ---> AKT1 26220473 10.1016/j.brainres.2015.07.025  
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 Regulation: PPARG ---> AKT1 29080795 10.1016/j.yexcr.2017.10.024  
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 Regulation: PPARG ---> AKT1 20212046 10.1074/jbc.M109.087718  
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 Regulation: PPARG ---> AKT1 31786192 10.1016/j.lfs.2019.117108  
 Regulation: PPARG ---> AKT1 32209360 10.1016/j.metabol.2020.154215  
 Regulation: PPARG ---> AKT1 29655655 10.1016/j.npep.2018.04.002  
 Regulation: PPARG ---> AKT1 31163220 10.1016/j.fct.2019.05.060  
 Regulation: PPARG ---> AKT1 31163220 10.1016/j.fct.2019.05.060  
 Regulation: PPARG ---> AKT1 32919185 10.1016/j.nut.2020.110968  
 Regulation: PPARG ---> AKT1 24269521 10.1016/j.pupt.2013.11.003  
 Regulation: PPARG ---> AKT1 24269521 10.1016/j.pupt.2013.11.003  
 Regulation: PPARG ---> AKT1 24269521 10.1016/j.pupt.2013.11.003  
 Regulation: PPARG ---> AKT1 29522896 10.1016/j.bbalip.2018.03.001

Regulation: PPARG ----> AKT1 30134163 10.1016/j.celrep.2018.07.063  
 Regulation: PPARG ----> AKT1 10.1016/S0006-291X(02)02983-2  
 Regulation: PPARG ----> AKT1 15369766 10.1016/j.bbrc.2004.08.101  
 Regulation: PPARG ----> AKT1 10.1016/S0014-5793(01)02674-6  
 Regulation: PPARG ----> AKT1 21974806 10.1016/j.canlet.2011.09.010  
 Regulation: PPARG ----> AKT1 17548167 10.1016/j.mehy.2006.12.064  
 Regulation: PPARG ----> AKT1 18950730 10.1016/j.biocel.2008.09.022  
 Regulation: PPARG ----> AKT1 23562554 10.1016/j.bbagen.2013.03.029  
 Regulation: PPARG ----> AKT1 24094981 10.1016/j.mehy.2013.08.014  
 Regulation: PPARG ----> AKT1 24856644 10.1016/j.thromres.2014.05.005  
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 Regulation: PPARG ----> AKT1 26885270  
 Regulation: PPARG ----> AKT1 26885270  
 Regulation: PPARG ----> AKT1 26885270  
 Regulation: PPARG ----> AKT1 28177764 10.1139/bcb-2016-0110  
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 Regulation: PPARG ----> AKT1 28466688 10.1177/1074248417707049  
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 Regulation: PPARG ----> AKT1 29686697 10.1155/2018/6970407  
 Regulation: PPARG ----> AKT1 29568880 10.3892/ijmm.2018.3568  
 Regulation: PPARG ----> AKT1 30087458 10.1038/s41374-018-0098-4  
 Regulation: PPARG ----> AKT1 30845932 10.1186/s12885-019-5426-6  
 Regulation: PPARG ----> AKT1 31173165 10.3892/ijmm.2019.4210  
 Regulation: PPARG ----> AKT1 30758990 10.1152/ajplung.00403.2018  
 Regulation: PPARG ----> AKT1 31404995 10.3390/ijms20163891  
 Regulation: PPARG ----> AKT1 31814555 10.2174/1568009619666191209102015  
 Regulation: PPARG ----> AKT1 32929062 10.1038/s41419-020-02969-x  
 Regulation: PPARG ----> AKT1 32710395 10.1007/s43440-020-00140-z  
 Regulation: PPARG ----> AKT1 32279581 10.1161/CIRCRESAHA.119.315558  
 Regulation: PPARG ----> AKT1 22190906 10.1155/2011/29165610.1155/2011/291656  
 Regulation: PPARG ----> AKT1 23766271 10.1002/stem.145510.1002/stem.1455  
 Regulation: PPARG ----> AKT1 145 10.1016/j.yexcr.2017.10.024  
 Regulation: PPARG ----> AKT1 276 10.1016/j.npep.2018.04.002  
 Regulation: PPARG ----> AKT1 10.1016/j.bbrc.2004.08.101  
 Regulation: PPARG ----> AKT1 10.1016/j.mehy.2006.12.064  
 Regulation: PPARG ----> AKT1 10.1016/j.jnutbio.2015.09.015  
 Regulation: PPARG ----> AKT1 10.1172/JCI97702  
 Regulation: PPARG ----> AKT1 10.3892/ijmm.2019.4210  
 Regulation: PPARG ----> AKT1 10.1152/ajplung.00403.2018  
 Regulation: PPARG ----> AKT1 10.3390/ijms20163891  
 Regulation: PPARG ----> AKT1 10.2174/1568009619666191209102015  
 Regulation: PPARG ----> AKT1 22502865 10.1186/1755-1536-5-5

Regulation: PPARG ----> AKT1 22502865 10.1186/1755-1536-5-5  
 Regulation: PPARG ----> AKT1 22502865 10.1186/1755-1536-5-5  
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 Regulation: PPARG ----> AKT1 22474127 10.1210/me.2011-1253  
 Regulation: PPARG ----> AKT1 22934112 10.1155/2012/408131  
 Regulation: PPARG ----> AKT1 20862376 10.1155/2010/417646  
 Regulation: PPARG ----> AKT1 21471100 10.1164/rccm.201010-15850C  
 Regulation: PPARG ----> AKT1 22190906 10.1155/2011/291656  
 Regulation: PPARG ----> AKT1 22190906 10.1155/2011/291656  
 Regulation: PPARG ----> AKT1 22190906 10.1155/2011/291656  
 Regulation: PPARG ----> AKT1 22190906 10.1155/2011/291656  
 Regulation: PPARG ----> AKT1 22190906 10.1155/2011/291656  
 Regulation: PPARG ----> AKT1 22190906 10.1155/2011/291656  
 Regulation: PPARG ----> AKT1 22190906 10.1155/2011/291656  
 Regulation: PPARG ----> AKT1 22481913 10.1155/2012/641087  
 Regulation: PPARG ----> AKT1 22481913 10.1155/2012/641087  
 Regulation: PPARG ----> AKT1 20127524 10.1007/s12035-010-8103-y  
 Regulation: PPARG ----> AKT1 20505521 10.1097/FJC.0b013e3181e74d83  
 Regulation: PPARG ----> AKT1 22879581 10.1161/ATVBAHA.112.253823  
 Regulation: PPARG ----> AKT1 22874998 10.1038/cddis.2012.99  
 Regulation: PPARG ----> AKT1 24096869 10.1038/cdd.2013.129  
 Regulation: PPARG ----> AKT1 23372643 10.1371/journal.pone.0050128  
 Regulation: PPARG ----> AKT1 23650507 10.1371/journal.pone.0062012  
 Regulation: PPARG ----> AKT1 24890395 10.1007/s40265-014-0235-3  
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 Regulation: PPARG ----> AKT1 10.4014/jmb.1501.01052  
 Regulation: PPARG ----> AKT1 30405422 10.3389/fphar.2018.0121110.3389/fphar.2018.01  
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 Regulation: PPARG ----> AKT1 26299428 10.3892/mmr.2015.4224  
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 Regulation: PPARG ----> AKT1 24856644 10.1016/j.thromres.2014.05.005  
 Regulation: PPARG ----> AKT1 24703963 10.1016/j.peptides.2014.03.014  
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 Regulation: PPARG ----> AKT1 26643367 10.1038/srep17878  
 Regulation: PPARG ----> AKT1 26643367 10.1038/srep17878  
 Regulation: PPARG ----> AKT1 26643367 10.1038/srep17878  
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 Regulation: PPARG ----> AKT1 16204373  
 Regulation: PPARG ----> AKT1 29350308 10.1007/s10549-017-4649-y10.1007/s10549-017-4  
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 Regulation: PPARG ----> AKT1 10.1161/CIRCRESAHA.119.315558  
 Regulation: PPARG ----> AKT1 10.1161/CIRCRESAHA.119.315558  
 Regulation: PPARG ----> AKT1 33199780 10.1038/s41467-020-19668-y  
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 Regulation: PPARG ----> AKT1 35397087 10.1007/s11033-022-07401-5

Expression: AKT1 ---> PPARG 28069607 10.1182/blood-2016-10-743757  
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Expression: AKT1 ---> PPARG 28887057 10.1016/j.lfs.2017.09.008  
Expression: AKT1 ---> PPARG 28887057 10.1016/j.lfs.2017.09.008  
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Expression: AKT1 ---> PPARG 19385085 10.1016/j.lfs.2009.01.018  
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Expression: AKT1 ---> PPARG 21840191 10.1016/j.jnutbio.2011.03.021  
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Expression: AKT1 ---> PPARG 22497928 10.1016/j.biocel.2012.03.019  
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 Expression: AKT1 ---> PPARG 26295369 10.1210/en.2015-1184  
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 Expression: AKT1 ---> PPARG 19191008 10.1007/s11010-009-0027-310.1007/s11010-009-0  
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 positive PromoterBinding: PPARG -24026200 10.3892/ijmm.2013.1487  
 positive PromoterBinding: PPARG -24026200 10.3892/ijmm.2013.1487  
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 positive PromoterBinding: PPARG -16425225 10.1002/ijc.21799  
 positive PromoterBinding: PPARG -22615735 10.1371/journal.pone.0035283  
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 positive Regulation: GPER1 --> #23545157 10.1016/j.mce.2013.03.018  
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positive Regulation: GPER1 --> #23907016 10.1016/j.jsbmb.2013.07.011  
positive Regulation: GPER1 --> #23907016 10.1016/j.jsbmb.2013.07.011  
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positive Regulation: GPER1 --> #23840305 10.1371/journal.pone.0064771  
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 Regulation: PTGS2 ---> AKT1 33152664 10.1016/j.redox.2020.101774  
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 Regulation: PTGS2 ---> AKT1 15179620 10.1053/j.seminonc.2004.03.040  
 Regulation: PTGS2 ---> AKT1 18812189 10.1016/j.imlet.2008.08.004  
 Regulation: PTGS2 ---> AKT1 18375246 10.1016/j.arcmed.2007.12.005  
 Regulation: PTGS2 ---> AKT1 12618325 10.1016/S0304-3835(02)00524-4  
 Regulation: PTGS2 ---> AKT1 18790560 10.1016/j.canlet.2008.08.012  
 Regulation: PTGS2 ---> AKT1 22546756 10.1016/j.mehy.2012.04.012  
 Regulation: PTGS2 ---> AKT1 18571350 10.1016/j.jep.2008.05.001  
 Regulation: PTGS2 ---> AKT1 18571350 10.1016/j.jep.2008.05.001  
 Regulation: PTGS2 ---> AKT1 20362052 10.1016/j.cellsig.2010.03.014  
 Regulation: PTGS2 ---> AKT1 16002278 10.1016/j.ejca.2005.04.013  
 Regulation: PTGS2 ---> AKT1 18178094 10.1016/j.nbd.2007.11.010  
 Regulation: PTGS2 ---> AKT1 15661561 10.1016/j.critrevonc.2004.10.001  
 Regulation: PTGS2 ---> AKT1 16531064 10.1016/j.critrevonc.2006.01.003  
 Regulation: PTGS2 ---> AKT1 21807123 10.1016/j.intimp.2011.07.011  
 Regulation: PTGS2 ---> AKT1 10.1016/j.jecm.2010.08.003  
 Regulation: PTGS2 ---> AKT1 20854947 10.1016/j.bone.2010.09.020  
 Regulation: PTGS2 ---> AKT1 20854947 10.1016/j.bone.2010.09.020  
 Regulation: PTGS2 ---> AKT1 20854947 10.1016/j.bone.2010.09.020  
 Regulation: PTGS2 ---> AKT1 20854947 10.1016/j.bone.2010.09.020

Regulation: PTGS2 ---> AKT1 20854947 10.1016/j.bone.2010.09.020  
 Regulation: PTGS2 ---> AKT1 20854947 10.1016/j.bone.2010.09.020  
 Regulation: PTGS2 ---> AKT1 20854947 10.1016/j.bone.2010.09.020  
 Regulation: PTGS2 ---> AKT1 20854947 10.1016/j.bone.2010.09.020  
 Regulation: PTGS2 ---> AKT1 20854947 10.1016/j.bone.2010.09.020  
 Regulation: PTGS2 ---> AKT1 20854947 10.1016/j.bone.2010.09.020  
 Regulation: PTGS2 ---> AKT1 20854947 10.1016/j.bone.2010.09.020  
 Regulation: PTGS2 ---> AKT1 20854947 10.1016/j.bone.2010.09.020  
 Regulation: PTGS2 ---> AKT1 23422333 10.1016/j.jep.2013.02.001  
 Regulation: PTGS2 ---> AKT1 23563277 10.1016/j.pharmthera.2013.04.001  
 Regulation: PTGS2 ---> AKT1 24465039 10.1016/j.curtheres.2013.06.001  
 Regulation: PTGS2 ---> AKT1 23907017 10.1016/j.jsbmb.2013.07.008  
 Regulation: PTGS2 ---> AKT1 24296130 10.1016/j.fct.2013.11.035  
 Regulation: PTGS2 ---> AKT1 25770423 10.1016/j.bbrc.2015.03.008  
 Regulation: PTGS2 ---> AKT1 25770423 10.1016/j.bbrc.2015.03.008  
 Regulation: PTGS2 ---> AKT1 25770423 10.1016/j.bbrc.2015.03.008  
 Regulation: PTGS2 ---> AKT1 25770423 10.1016/j.bbrc.2015.03.008  
 Regulation: PTGS2 ---> AKT1 25770423 10.1016/j.bbrc.2015.03.008  
 Regulation: PTGS2 ---> AKT1 25770423 10.1016/j.bbrc.2015.03.008  
 Regulation: PTGS2 ---> AKT1 20022932  
 Regulation: PTGS2 ---> AKT1 21078168  
 Regulation: PTGS2 ---> AKT1 21078168  
 Regulation: PTGS2 ---> AKT1 20042609  
 Regulation: PTGS2 ---> AKT1 19052170  
 Regulation: PTGS2 ---> AKT1 16966336  
 Regulation: PTGS2 ---> AKT1 15016316  
 Regulation: PTGS2 ---> AKT1 19099539  
 Regulation: PTGS2 ---> AKT1 16800815  
 Regulation: PTGS2 ---> AKT1 20661229  
 Regulation: PTGS2 ---> AKT1 17285134  
 Regulation: PTGS2 ---> AKT1 16160697  
 Regulation: PTGS2 ---> AKT1 16396944  
 Regulation: PTGS2 ---> AKT1 16396944  
 Regulation: PTGS2 ---> AKT1 34404424 10.1186/s13046-021-02050-1  
 Regulation: PTGS2 ---> AKT1 33662521 10.1016/j.alcohol.2020.08.00710.1016/j.alcohc  
 Regulation: PTGS2 ---> AKT1 22784710 10.1158/1535-7163.MCT-12-034210.1158/1535-716  
 Regulation: PTGS2 ---> AKT1 723 10.1016/j.cyto.2018.03.032  
 Regulation: PTGS2 ---> AKT1 10.1016/j.mehy.2012.04.012  
 Regulation: PTGS2 ---> AKT1 16014934  
 Regulation: PTGS2 ---> AKT1 16014934  
 Regulation: PTGS2 ---> AKT1 17259595  
 Regulation: PTGS2 ---> AKT1 25422106 10.2337/db14-0979  
 Regulation: PTGS2 ---> AKT1 27056726 10.1152/ajpgi.00428.2015  
 Regulation: PTGS2 ---> AKT1 10.2174/1389557516666160505115743  
 Regulation: PTGS2 ---> AKT1 10.2174/1389557516666160505115743  
 Regulation: PTGS2 ---> AKT1 10.2174/1573406412666160622130036  
 Regulation: PTGS2 ---> AKT1 27994517 10.7150/ijbs.15943  
 Regulation: PTGS2 ---> AKT1 29048666 10.3892/or.2017.5981  
 Regulation: PTGS2 ---> AKT1 29110215 10.1007/s10456-017-9583-4  
 Regulation: PTGS2 ---> AKT1 10.1097/CMR.0000000000000368  
 Regulation: PTGS2 ---> AKT1 10.1097/IGC.0000000000001269  
 Regulation: PTGS2 ---> AKT1 10.1002/JLB.3HI0518-193R  
 Regulation: PTGS2 ---> AKT1 10.1186/s13046-019-1361-2  
 Regulation: PTGS2 ---> AKT1 10.1186/s13046-019-1361-2

Regulation: PTGS2 ----> AKT1 10. 1186/s13046-019-1361-2  
 Regulation: PTGS2 ----> AKT1 10. 1186/s13046-019-1361-2  
 Regulation: PTGS2 ----> AKT1 23229294 10. 3892/or. 2012. 2158  
 Regulation: PTGS2 ----> AKT1 23243000 10. 1091/mbc. E12-08-0637  
 Regulation: PTGS2 ----> AKT1 20203246 10. 1164/rccm. 200905-06740C  
 Regulation: PTGS2 ----> AKT1 20203246 10. 1164/rccm. 200905-06740C  
 Regulation: PTGS2 ----> AKT1 10. 1186/s13046-019-1361-2  
 Regulation: PTGS2 ----> AKT1 10. 1248/bpb. b19-00222  
 Regulation: PTGS2 ----> AKT1 31380437 10. 1155/2019/758745110. 1155/2019/7587451  
 Regulation: PTGS2 ----> AKT1 31380437 10. 1155/2019/758745110. 1155/2019/7587451  
 Regulation: PTGS2 ----> AKT1 31438982 10. 1186/s13046-019-1361-210. 1186/s13046-019-1  
 Regulation: PTGS2 ----> AKT1 31438982 10. 1186/s13046-019-1361-210. 1186/s13046-019-1  
 Regulation: PTGS2 ----> AKT1 15492414 10. 1111/j. 1346-8138. 2004. tb00547. x  
 Regulation: PTGS2 ----> AKT1 23149922 10. 1158/0008-5472. CAN-12-222010. 1158/0008-547  
 Regulation: PTGS2 ----> AKT1 19505457 10. 1016/j. yexpr. 2009. 06. 002  
 Regulation: PTGS2 ----> AKT1 16014934  
 Regulation: PTGS2 ----> AKT1 19687189 10. 1093/ecam/nep108  
 Regulation: PTGS2 ----> AKT1 21561856 10. 1074/jbc. M111. 222349  
 Regulation: PTGS2 ----> AKT1 21561856 10. 1074/jbc. M111. 222349  
 Regulation: PTGS2 ----> AKT1 19293251 10. 1093/ecam/nep020  
 Regulation: PTGS2 ----> AKT1 20467837 10. 1007/s12035-010-8139-z  
 Regulation: PTGS2 ----> AKT1 20803081 10. 1245/s10434-010-1268-9  
 Regulation: PTGS2 ----> AKT1 21078168 10. 1186/1471-2407-10-626  
 Regulation: PTGS2 ----> AKT1 21078168 10. 1186/1471-2407-10-626  
 Regulation: PTGS2 ----> AKT1 21457561 10. 1186/1743-422X-8-155  
 Regulation: PTGS2 ----> AKT1 30367494 10. 1002/jcp. 2751510. 1002/jcp. 27515  
 Regulation: PTGS2 ----> AKT1 32797349 10. 1007/s11033-020-05709-8  
 Regulation: PTGS2 ----> AKT1 33152664 10. 1016/j. redox. 2020. 10177410. 1016/j. redox. 20  
 Regulation: PTGS2 ----> AKT1 33152664 10. 1016/j. redox. 2020. 10177410. 1016/j. redox. 20  
 Regulation: PTGS2 ----> AKT1 32902794 10. 1007/s00432-020-03383-8  
 Regulation: PTGS2 ----> AKT1 29630111 10. 26355/eurrev\_201803\_14579  
 Regulation: PTGS2 ----> AKT1 10. 1124/jpet. 118. 254359  
 Regulation: PTGS2 ----> AKT1 33893997 10. 1007/s12033-021-00326-7  
 Regulation: PTGS2 ----> AKT1 33893997 10. 1007/s12033-021-00326-7  
 Regulation: PTGS2 ----> AKT1 34127813 10. 1038/s41388-021-01858-7  
 Regulation: PTGS2 ----> AKT1 34664237 10. 1007/978-3-030-73119-9\_7  
 Regulation: PTGS2 ----> AKT1  
 Regulation: PTGS2 ----> AKT1 34917200 10. 1155/2021/4114593  
 Regulation: PTGS2 ----> AKT1 34917200 10. 1155/2021/4114593  
 Regulation: PTGS2 ----> AKT1 35031925 10. 1007/s11033-021-07063-9  
 Regulation: PTGS2 ----> AKT1 35732325 10. 21873/cgp. 20335  
 Regulation: PTGS2 ----> AKT1 35780223 10. 1007/s00018-022-04430-y  
 negative Regulation: MAPK1 ----| c 30257357 10. 1016/j. biopha. 2018. 08. 132  
 negative Regulation: MAPK1 ----| c 17690186 10. 2353/ajpath. 2007. 070010  
 negative Regulation: MAPK1 ----| c 30257357 10. 1016/j. biopha. 2018. 08. 132  
 negative Regulation: MAPK1 ----| c 17482503 10. 1016/j. drup. 2007. 03. 003  
 negative Regulation: MAPK1 ----| c 23073477 10. 1016/j. canlet. 2012. 10. 004  
 negative Regulation: MAPK1 ----| c 28849180 10. 3892/or. 2017. 5908  
 negative Regulation: MAPK1 ----| c 31133044 10. 1186/s13046-019-1226-8  
 negative Regulation: MAPK1 ----| c 32039627 10. 4149/neo\_2020\_190604N486  
 negative Regulation: MAPK1 ----| c 24104394 10. 1038/leu. 2013. 291  
 negative Regulation: MAPK1 ----| c 30257357 10. 1016/j. biopha. 2018. 08. 13210. 1016/j. biopha.  
 negative Regulation: MAPK1 ----| c 22179790 10. 3892/ijo. 2011. 1303  
 negative Regulation: MAPK1 ----| c 22179790 10. 3892/ijo. 2011. 1303

negative Regulation: MAPK1 ---| c22179790 10.3892/ijo.2011.1303  
negative Regulation: MAPK1 ---| c26316041 10.3892/ijo.2015.3137  
negative Regulation: MAPK1 ---| c22179790 10.3892/ijo.2011.1303  
negative Regulation: MAPK1 ---| c22179790 10.3892/ijo.2011.1303  
negative Regulation: MAPK1 ---| chemosensitivity  
negative Regulation: CLDN1 ---| F35686527 10.1631/jzus.B2100988  
Binding: NOTCH1 ---- LRP8 30304853 10.3390/ijms19103090  
Regulation: CD274 ---> PPARG 33218268 10.1080/15384047.2020.183803210.1080/15384047  
Regulation: CD274 ---> PPARG 19535643 10.4049/jimmunol.0804260  
Regulation: CD274 ---> PPARG  
positive Regulation: LRP8 --+> NC21253854 10.1007/s11064-011-0407-4  
positive Regulation: LRP8 --+> NOTCH1  
negative Regulation: TNFAIP8L2 --30114619 10.1016/j.molimm.2018.08.010  
negative Regulation: TNFAIP8L2 --29920292 10.1016/j.canlet.2018.06.017  
negative Regulation: TNFAIP8L2 --27712587 10.3727/096504016X14666990347437  
negative Regulation: TNFAIP8L2 --27779698 10.3892/or.2016.5192  
negative Regulation: TNFAIP8L2 --27779698 10.3892/or.2016.5192  
negative Regulation: TNFAIP8L2 --27779698 10.3892/or.2016.5192  
negative Regulation: TNFAIP8L2 --28186089 10.1038/cgt.2017.3  
negative Regulation: TNFAIP8L2 --28186089 10.1038/cgt.2017.3  
negative Regulation: TNFAIP8L2 --28186089 10.1038/cgt.2017.3  
negative Regulation: TNFAIP8L2 --28287114 10.1038/cmi.2017.4  
negative Regulation: TNFAIP8L2 --28849057 10.3892/mmr.2017.7364  
negative Regulation: TNFAIP8L2 --30015980 10.3892/or.2018.6576  
negative Regulation: TNFAIP8L2 --30157801 10.1186/s12885-018-4761-3  
negative Regulation: TNFAIP8L2 --30157801 10.1186/s12885-018-4761-3  
negative Regulation: TNFAIP8L2 --30157801 10.1186/s12885-018-4761-3  
negative Regulation: TNFAIP8L2 --30157801 10.1186/s12885-018-4761-3  
negative Regulation: TNFAIP8L2 --30157801 10.1186/s12885-018-4761-3  
negative Regulation: TNFAIP8L2 --31591376 10.12659/MSM.917229  
negative Regulation: TNFAIP8L2 --32493031 10.1152/ajplung.00069.2020  
negative Regulation: TNFAIP8L2 --25946186 10.1371/journal.pone.0126176  
negative Regulation: TNFAIP8L2 --25946186 10.1371/journal.pone.0126176  
negative Regulation: TNFAIP8L2 --26530498 10.3892/ijo.2015.3224  
negative Regulation: TNFAIP8L2 --26987289 10.1038/cgt.2016.6  
negative Regulation: TNFAIP8L2 --26987289 10.1038/cgt.2016.6  
negative Regulation: TNFAIP8L2 --25946186 10.1371/journal.pone.012617610.1371/journal.p  
negative Regulation: TNFAIP8L2 --27712587 10.3727/096504016X1466699034743710.3727/09650  
negative Regulation: TNFAIP8L2 --27779698 10.3892/or.2016.519210.3892/or.2016.5192  
negative Regulation: TNFAIP8L2 --30157801 10.1186/s12885-018-4761-310.1186/s12885-018-4  
negative Regulation: TNFAIP8L2 --34446024 10.1186/s12931-021-01826-5  
negative Regulation: TNFAIP8L2 --34446024 10.1186/s12931-021-01826-510.1186/s12931-021-  
negative Regulation: TNFAIP8L2 ---| AKT1 10.1016/j.jsps.2022.05.009  
negative Regulation: TNFAIP8L2 ---| AKT1 10.1016/j.jsps.2022.05.009  
negative Regulation: TNFAIP8L2 --35903524 10.1016/j.jsps.2022.05.00910.1016/j.jsps.2022  
Regulation: STC2 ---> AKT1 30661222 10.1007/s12253-018-00576-y  
Regulation: STC2 ---> AKT1 32900244 10.1089/hum.2020.090  
Regulation: STC2 ---> AKT1 32900244 10.1089/hum.2020.090  
Regulation: STC2 ---> AKT1 27863406 10.18632/oncotarget.1335510.18632/oncotarget.  
Regulation: STC2 ---> AKT1 27863406 10.18632/oncotarget.1335510.18632/oncotarget.  
negative Expression: ING4 ---| SF17848618 10.1182/blood-2007-02-074617  
negative Expression: ING4 ---| SF17848618 10.1182/blood-2007-02-074617  
negative Expression: ING4 ---| SF17848618 10.1182/blood-2007-02-074617  
negative Expression: ING4 ---| SF30643005 10.1042/BSR20180773

negative Expression: ING4 ---| SF17848618 10.1182/blood-2007-02-074617  
 negative Expression: ING4 ---| SF17848618 10.1182/blood-2007-02-074617  
 negative Expression: ING4 ---| SF17848618 10.1182/blood-2007-02-074617  
 negative Expression: ING4 ---| SF17848618 10.1182/blood-2007-02-074617  
 negative Expression: ING4 ---| SF17848618 10.1182/blood-2007-02-074617  
 negative Expression: ING4 ---| SF17848618 10.1182/blood-2007-02-074617  
 negative Expression: ING4 ---| SF35576491 10.1089/jir.2021.0214  
 negative Regulation: BECN1 ---| N32800766 10.1016/j.ygeno.2020.08.009  
 negative Regulation: BECN1 ---| N26837467 10.1038/ncomms10533  
 Regulation: CLDN1 ---> SPP1 26982264 10.1089/dna.2015.3188  
 positive Regulation: PTGS2 --> F15525653 10.1074/jbc.M410006200  
 positive Regulation: PTGS2 --> F16309946 10.1016/j.biocel.2005.10.006  
 positive Regulation: PTGS2 --> F15525653  
 positive Regulation: PTGS2 --> F20339539  
 positive Regulation: PTGS2 --> F21175416  
 positive Regulation: PTGS2 --> F21989184 10.1038/bjc.2011.403  
 positive Regulation: PTGS2 --> F25595899 10.18632/oncotarget.2783  
 positive Regulation: PTGS2 --> RAC1  
 positive Expression: RAC1 --> P115860667 10.1182/blood-2004-12-4975  
 positive Expression: RAC1 --> P115860667 10.1182/blood-2004-12-4975  
 positive Expression: RAC1 --> P115860667 10.1182/blood-2004-12-4975  
 positive Expression: RAC1 --> P120167866 10.2353/ajpath.2010.090714  
 positive Expression: RAC1 --> P120167866 10.2353/ajpath.2010.090714  
 positive Expression: RAC1 --> P120167866 10.2353/ajpath.2010.090714  
 positive Expression: RAC1 --> P120167866 10.2353/ajpath.2010.090714  
 positive Expression: RAC1 --> P120167866 10.2353/ajpath.2010.090714  
 positive Expression: RAC1 --> P120167866 10.2353/ajpath.2010.090714  
 positive Expression: RAC1 --> P119729484 10.2353/ajpath.2009.090443  
 positive Expression: RAC1 --> P121907186 10.1016/j.bbrc.2011.08.116  
 positive Expression: RAC1 --> P119118901 10.1016/j.molimm.2008.11.006  
 positive Expression: RAC1 --> P120004474 10.1016/j.molimm.2009.11.017  
 positive Expression: RAC1 --> P120004474 10.1016/j.molimm.2009.11.017  
 positive Expression: RAC1 --> P120004474 10.1016/j.molimm.2009.11.017  
 positive Expression: RAC1 --> P119110011 10.1016/j.bbamcr.2008.11.009  
 positive Expression: RAC1 --> P118599158 10.1016/j.neurobiolaging.2008.05.017  
 positive Expression: RAC1 --> P115588766 10.1016/j.bbcan.2004.10.002  
 positive Expression: RAC1 --> P115588766 10.1016/j.bbcan.2004.10.002  
 positive Expression: RAC1 --> PTGS2 10.1016/S1359-6446(03)02977-5  
 positive Expression: RAC1 --> P120451669 10.1016/j.intimp.2010.04.026  
 positive Expression: RAC1 --> P112857884  
 positive Expression: RAC1 --> P112857884  
 positive Expression: RAC1 --> P112857884  
 positive Expression: RAC1 --> P112857884  
 positive Expression: RAC1 --> P112857884  
 positive Expression: RAC1 --> P112857884  
 positive Expression: RAC1 --> P112360401  
 positive Expression: RAC1 --> P127442365 10.1515/revneuro-2016-0021  
 positive Expression: RAC1 --> P122113496 10.2119/molmed.2011.00447  
 positive Expression: RAC1 --> P124667766 10.1371/journal.pone.0092398  
 positive Expression: RAC1 --> P112857884 10.1091/mbc.e03-01-0016  
 positive Expression: RAC1 --> P116088958 10.1002/jcb.20568  
 positive Expression: RAC1 --> P116088958 10.1002/jcb.20568  
 positive Expression: RAC1 --> P117592548 10.2119/2007 - 00005. Wu  
 positive Expression: RAC1 --> P119118901 10.1016/j.molimm.2008.11.006  
 positive Expression: RAC1 --> P120131316 10.1002/ijc.2522610.1002/ijc.25226

positive Expression: RAC1 --> P112857884  
 positive Expression: RAC1 --> PTGS2 10.1158/1940-6207.CAPR-15-0205-T  
 positive Expression: RAC1 --> PTGS2  
 positive Expression: RAC1 --> P136018772 10.1530/REP-21-0186  
 positive Expression: RAC1 --> P136018772 10.1530/REP-21-0186  
 positive Expression: RAC1 --> P136018772 10.1530/REP-21-0186  
 positive Expression: RAC1 --> P136018772 10.1530/REP-21-0186  
 positive Expression: RAC1 --> P136018772 10.1530/REP-21-0186  
 positive Expression: RAC1 --> P136018772 10.1530/REP-21-0186  
 positive Expression: RAC1 --> P136018772 10.1530/REP-21-0186  
 positive Expression: RAC1 --> P136018772 10.1530/REP-21-0186  
 Regulation: BIRC7 ---> PTEN 21092516  
 Regulation: GPER1 ---> chemosensi26175858  
 Regulation: GPER1 ---> chemosensi35335125 10.3390/molecules27061762  
 negative Expression: PTEN ---| B129436592 10.3892/ijmm.2018.3475  
 Regulation: MCL1 ---> AKT1 33831733 10.1016/j.archoralbio.2021.105114  
 Regulation: MCL1 ---> AKT1 21472003 10.1038/cddis.2011.2210.1038/cddis.2011.22  
 Regulation: MCL1 ---> AKT1 30415256 10.1159/00049506010.1159/000495060  
 Regulation: MCL1 ---> AKT1 33831733 10.1016/j.archoralbio.2021.105114  
 Regulation: MCL1 ---> AKT1 32814093 10.1016/j.jconrel.2020.08.018  
 Regulation: MCL1 ---> AKT1 29361380 10.1016/j.cytogfr.2018.01.002  
 Regulation: MCL1 ---> AKT1 22484311 10.1016/j.bcp.2012.03.015  
 Regulation: MCL1 ---> AKT1 22484311 10.1016/j.bcp.2012.03.015  
 Regulation: MCL1 ---> AKT1 20227039 10.1016/j.ccr.2010.01.021  
 Regulation: MCL1 ---> AKT1 23524145 10.1016/j.yexcr.2013.03.012  
 Regulation: MCL1 ---> AKT1 25801032 10.1016/j.celrep.2015.02.056  
 Regulation: MCL1 ---> AKT1 15782127  
 Regulation: MCL1 ---> AKT1 27102561 10.1152/ajpgi.00327.2015  
 Regulation: MCL1 ---> AKT1 27757735 10.1007/s10495-016-1307-5  
 Regulation: MCL1 ---> AKT1 30415256 10.1159/000495060  
 Regulation: MCL1 ---> AKT1 30415256 10.1159/000495060  
 Regulation: MCL1 ---> AKT1 30415256 10.1159/000495060  
 Regulation: MCL1 ---> AKT1 23158473 10.1186/1476-4598-11-84  
 Regulation: MCL1 ---> AKT1 23517112 10.1186/1471-2407-13-140  
 Regulation: MCL1 ---> AKT1 21472003 10.1038/cddis.2011.22  
 Regulation: MCL1 ---> AKT1 25032861 10.1038/cddis.2014.303  
 Regulation: MCL1 ---> AKT1 26739047 10.1128/JVI.02879-15  
 Regulation: MCL1 ---> AKT1 15782127 10.1038/sj.onc.1208530  
 Regulation: MCL1 ---> AKT1 31662324 10.1158/0008-5472.CAN-19-095010.1158/0008-547  
 Regulation: MCL1 ---> AKT1 35701409 10.1038/s41419-022-04958-810.1038/s41419-022-  
 Regulation: MCL1 ---> AKT1 35744786 10.3390/molecules27123661  
 Regulation: MCL1 ---> AKT1 35701409 10.1038/s41419-022-04958-8  
 Regulation: MCL1 ---> AKT1 35701409 10.1038/s41419-022-04958-8  
 Regulation: MCL1 ---> AKT1 35701409 10.1038/s41419-022-04958-8  
 Regulation: MCL1 ---> AKT1 35701409 10.1038/s41419-022-04958-8  
 Regulation: MCL1 ---> AKT1 35701409 10.1038/s41419-022-04958-8  
 Regulation: MCL1 ---> AKT1 36241868 10.1038/s41388-022-02482-9  
 Regulation: B3GNT3 ---> CD274 31874279 10.1016/j.semcaner.2019.11.011  
 Regulation: B3GNT3 ---> CD274 29438695 10.1016/j.ccell.2018.01.009  
 Regulation: B3GNT3 ---> CD274 29438695 10.1016/j.ccell.2018.01.009  
 Regulation: B3GNT3 ---> CD274 29438695 10.1016/j.ccell.2018.01.009  
 Regulation: B3GNT3 ---> CD274 29438695 10.1016/j.ccell.2018.01.009  
 Regulation: B3GNT3 ---> CD274 31287993 10.1016/j.ccell.2019.06.006  
 Regulation: B3GNT3 ---> CD274 32183950 10.1016/j.ccell.2020.02.006

Regulation: B3GNT3 ----> CD274 29765039 10.1038/s41467-018-04313-6  
 Regulation: B3GNT3 ----> CD274 32377193 10.1155/2020/5497015  
 Regulation: B3GNT3 ----> CD274 33159034 10.1038/s41419-020-03140-2  
 Regulation: B3GNT3 ----> CD274 32940722 10.1007/s00018-020-03637-1  
 Regulation: B3GNT3 ----> CD274 35197058 10.1186/s12943-021-01447-y  
 Expression: AKT1 ----> SPP1 27496181 10.1016/j.pbiomolbio.2016.08.003  
 Expression: AKT1 ----> SPP1 27794492 10.1016/j.jconrel.2016.10.024  
 Expression: AKT1 ----> SPP1 19356721 10.1016/j.ejphar.2009.03.063  
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 Expression: AKT1 ----> SPP1 25986148 10.1016/j.yjmcc.2015.05.006  
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 Expression: AKT1 ----> SPP1 22675553 10.1371/journal.pone.0038378  
 Expression: AKT1 ----> SPP1 22675553 10.1371/journal.pone.0038378  
 Expression: AKT1 ----> SPP1 22675553 10.1371/journal.pone.0038378  
 Expression: AKT1 ----> SPP1 22675553 10.1371/journal.pone.0038378  
 Expression: AKT1 ----> SPP1 22675553 10.1371/journal.pone.0038378  
 Expression: AKT1 ----> SPP1 22675553 10.1371/journal.pone.0038378  
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Regulation: NGF ---> GCLC 15877105  
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Expression: MAPK1 ---> NGF 17651887 10.1016/j.tox.2007.05.029  
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 Expression: AKT1 ---> NOTCH1 21338656 10.1016/j.bbcan.2011.02.001  
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negative Regulation: TP53 ---| Af 15001356 10.1016/j.jmb.2003.10.081  
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 negative Regulation: TP53 ---| Af 19203586 10.1016/j.cell.2008.12.002  
 negative Regulation: TP53 ---| Af 19203586 10.1016/j.cell.2008.12.002  
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 negative Regulation: TP53 ---| Af 19648052 10.1016/j.drug.2009.07.001  
 negative Regulation: TP53 ---| Af 19411072 10.1016/j.ccr.2009.03.021  
 negative Regulation: TP53 ---| Af 19796712 10.1016/j.mito.2009.09.006  
 negative Regulation: TP53 ---| Af 22999923 10.1016/j.neulet.2012.09.022  
 negative Regulation: TP53 ---| Af 22975375 10.1016/j.ccr.2012.08.001  
 negative Regulation: TP53 ---| Af 23870914 10.1016/j.foodchem.2013.05.021  
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 negative Regulation: TP53 ---| Af 24857662 10.1016/j.celrep.2014.04.046  
 negative Regulation: TP53 ---| Af 25907832 10.1016/j.ajpath.2015.01.025  
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 negative Regulation: TP53 ---| Af 20858413 10.1016/j.bpj.2010.07.042  
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negative Regulation: TP53 ---| Af 30827507 10.1016/j.bbrc.2019.02.089  
negative Regulation: TP53 ---| Af 31733192 10.1016/j.bcp.2019.113713  
negative Regulation: TP53 ---| Af 12393587 10.1182/blood-2002-02-0504  
negative Regulation: TP53 ---| Af 32687844 10.1016/j.cbi.2020.109196  
negative Regulation: TP53 ---| Af 31870856 10.1016/j.yexmp.2019.104362  
negative Regulation: TP53 ---| Af 30528266 10.1016/j.yexcr.2018.12.002  
negative Regulation: TP53 ---| Af 30528266 10.1016/j.yexcr.2018.12.002  
negative Regulation: TP53 ---| Af 30528266 10.1016/j.yexcr.2018.12.002  
negative Regulation: TP53 ---| Af 30528266 10.1016/j.yexcr.2018.12.002  
negative Regulation: TP53 ---| Af 30528266 10.1016/j.yexcr.2018.12.002  
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negative Regulation: TP53 ---| Af 20685653 10.1074/jbc.M110.134650  
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negative Regulation: TP53 ---| Af 24451373 10.1074/jbc.M113.532523  
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negative Regulation: TP53 ---| Af 30473026 10.1016/j.lfs.2018.10.051  
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negative Regulation: TP53 ---| Af 32693135 10.1016/j.ijbiomac.2020.07.137  
negative Regulation: TP53 ---| Af 30170033 10.1016/j.dci.2018.08.017  
negative Regulation: TP53 ---| Af 30296496 10.1016/j.bbamcr.2018.10.005  
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negative Regulation: TP53 ---| Af 31320250 10.1016/j.prp.2019.152531  
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negative Regulation: TP53 ---| Af 28673691 10.1016/j.mod.2017.06.006  
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negative Regulation: TP53 ---| Af 30641278 10.1016/j.phrs.2019.01.021  
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negative Regulation: TP53 ---| Af 32846356 10.1016/j.dnarep.2020.102952  
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negative Regulation: TP53 ---| Af 15862750 10.1016/j.ejca.2005.02.011  
negative Regulation: TP53 ---| Af 15862750 10.1016/j.ejca.2005.02.011  
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negative Regulation: TP53 ---| Af 15209377 10.1016/j.semcd.2004.01.002  
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negative Regulation: TP53 ---	AF 25268131	10.1371/journal.pone.010681210.1371/journal.p
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negative Regulation: TP53 ---	AF 35414774	10.7150/ijbs.67200
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Binding: BECN1 ---- MCL1 21139567 10.1038/emboj.2010.327  
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positive Regulation: NOTCH1 --> AKT1 10.1016/j.urolonc.2011.07.006  
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positive Regulation: NOTCH1 --> 24095799 10.1016/j.yexpr.2013.09.019  
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positive Regulation: NOTCH1 --> 24140475 10.1016/j.cellsig.2013.09.021  
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positive Regulation: NOTCH1 --> 21993533 10.1016/j.urolonc.2011.07.006  
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positive Regulation: NOTCH1 --> 24775271 10.1016/j.imbio.2014.03.020  
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positive Regulation: NOTCH1 --> 26967479 10.1016/j.jid.2015.11.006

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positive Regulation: NOTCH1 --> 27593934 10.1038/onc.2016.275  
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ProtModification: AKT1 ---> BECN132428566 10.1016/j.biochi.2020.04.025  
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ProtModification: AKT1 ---> BECN131260798 10.1016/j.cellsig.2019.109353  
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ProtModification: AKT1 ---> BECN127335173 10.1152/ajpcell.00129.2016  
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ProtModification: AKT1 ---> BECN129218076  
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ProtModification: AKT1 ---> BECN131843932 10.1073/pnas.1915139116  
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ProtModification: AKT1 ---> BECN131776982 10.1007/978-981-15-0602-4\_5  
ProtModification: AKT1 ---> BECN131776982 10.1007/978-981-15-0602-4\_5  
ProtModification: AKT1 ---> BECN131776982 10.1007/978-981-15-0602-4\_5  
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ProtModification: AKT1 ---> BECN123817237 10.1038/ncb2797  
ProtModification: AKT1 ---> BECN124006406 10.3324/haematol.2012.079061  
ProtModification: AKT1 ---> BECN123980547 10.1165/rcmb.2013-0314TR  
ProtModification: AKT1 ---> BECN123980547 10.1165/rcmb.2013-0314TR  
ProtModification: AKT1 ---> BECN124257753 10.1074/jbc.M113.532978

ProtModification: AKT1 ---> BECN124257753 10.1074/jbc.M113.532978  
ProtModification: AKT1 ---> BECN124257753 10.1074/jbc.M113.532978  
ProtModification: AKT1 ---> BECN124257753 10.1074/jbc.M113.532978  
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ProtModification: AKT1 ---> BECN123708729 10.1007/s10059-013-0140-8  
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ProtModification: AKT1 ---> BECN125412422 10.1371/journal.ppat.1004409  
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ProtModification: AKT1 ---> BECN125633274 10.1210/me.2014-1367  
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ProtModification: AKT1 ---> BECN1 10.1073/pnas.1915139116  
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ProtModification: AKT1 ---> BECN1 10.1007/978-981-15-0602-4\_5  
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ProtModification: AKT1 ---> BECN134655756 10.1016/j.jnutbio.2021.108882  
ProtModification: AKT1 ---> BECN134655756 10.1016/j.jnutbio.2021.108882  
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Expression: AKT1 ---> BECN1 26593748 10.1016/j.freeradbiomed.2015.11.022  
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 Expression: MAPK1 ---> PTEN 24866016 10.1371/journal.pone.0098113  
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positive Expression: TP53 --> M123220650 10.1016/j.neulet.2012.11.047  
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Expression: BECN1 ---> MCL1 25472497 10.1038/ncomms6637  
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 DirectRegulation: MCL1 ---> BECN121353614 10.1016/j.molcel.2011.02.009  
 DirectRegulation: MCL1 ---> BECN120159550 10.1016/j.molcel.2010.01.025  
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ProtModification: AKT1 ---> PHF2C 22334668 10.1074/jbc.M111.333922  
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ProtModification: AKT1 ---> PHF2C 22975685 10.1016/j.cellsig.2012.09.009  
ProtModification: AKT1 ---> PHF2C 22975685 10.1016/j.cellsig.2012.09.009  
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Expression: NOTCH1 ---> MAPK1 32792479 10.1038/s41419-020-02873-4  
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negative Expression: MIR107 ---| 31778666 10.1016/j.cbi.2019.108908  
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positive Regulation: PTEN --> cf 16545436 10.1016/j.ygyno.2005.12.033  
positive Regulation: PTEN --> cf 15072831 10.1016/j.canlet.2003.10.028  
positive Regulation: PTEN --> cf 15072831 10.1016/j.canlet.2003.10.028  
positive Regulation: PTEN --> cf 23920276 10.1016/j.phymed.2013.07.002  
positive Regulation: PTEN --> cf 25744176 10.1016/j.drudis.2015.02.011  
positive Regulation: PTEN --> cf 21108789  
positive Regulation: PTEN --> cf 21108789  
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positive Regulation: PTEN --> cf 11729185  
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positive Regulation: PTEN --> cf 18458673  
positive Regulation: PTEN --> cf 16404430  
positive Regulation: PTEN --> cf 11103942  
positive Regulation: PTEN --> cf 28887606 10.1007/s10616-017-0134-z  
positive Regulation: PTEN --> cf 30616477 10.1177/0300060518819606  
positive Regulation: PTEN --> cf 33076450 10.3390/ijms21207633  
positive Regulation: PTEN --> cf 33721218 10.1007/s13577-021-00519-x

positive Regulation: PTEN --> cf 33721218 10.1007/s13577-021-00519-x  
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 positive Regulation: PTEN --> cf 20736773 10.1097/PGP.0b013e3181de3068  
 positive Regulation: PTEN --> cf 26043084 10.1371/journal.pone.0128886  
 positive Regulation: PTEN --> cf 11103942 10.1038/sj.onc.1203918  
 positive Regulation: PTEN --> cf 16404430 10.1038/sj.bjc.6602926  
 positive Regulation: PTEN --> cf 16438844  
 positive Regulation: PTEN --> cf 21820606 10.1016/j.arcmed.2011.06.00810.1016/j.arcmed.  
 positive Regulation: PTEN --> cf 28686971 10.1016/j.biopha.2017.06.08910.1016/j.biopha.  
 positive Regulation: PTEN --> cf 30925916 10.1186/s13046-019-1119-x10.1186/s13046-019-1  
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 positive Regulation: PTEN --> cf 27147467 10.1007/s00018-016-2253-7  
 positive Regulation: PTEN --> cf 22781804  
 positive Regulation: PTEN --> cf 27955382  
 positive Regulation: PTEN --> chemosensit10.1042/BSR20180773  
 positive Regulation: PTEN --> cf 34681603 10.3390/ijms222010944  
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 negative Expression: TNFAIP8L2 --29568863 10.3892/mmr.2018.8789  
 Regulation: PTEN ---> RAC1 12393431 10.1182/blood-2002-04-1251  
 Regulation: PTEN ---> RAC1 23806663 10.1016/j.bbamcr.2013.06.009  
 Regulation: PTEN ---> RAC1 10.1016/j.ijdevneu.2008.09.171  
 Regulation: PTEN ---> RAC1 15246683 10.1016/j.bbamcr.2004.04.010  
 Regulation: PTEN ---> RAC1 21943825 10.1016/j.canlet.2011.08.023  
 Regulation: PTEN ---> RAC1 10.1016/S0955-0674(00)00105-8  
 Regulation: PTEN ---> RAC1 10.1016/S0955-0674(00)00105-8  
 Regulation: PTEN ---> RAC1 17560336 10.1016/j.ccr.2007.04.021  
 Regulation: PTEN ---> RAC1 22995297 10.1016/j.bbrc.2012.09.025  
 Regulation: PTEN ---> RAC1 23000914 10.1016/j.bcp.2012.09.008  
 Regulation: PTEN ---> RAC1 23993968 10.1016/j.cellsig.2013.08.017  
 Regulation: PTEN ---> RAC1 19864456  
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 Regulation: PTEN ---> RAC1 16341149  
 Regulation: PTEN ---> RAC1 19940030  
 Regulation: PTEN ---> RAC1 26166433 10.1038/ncomms8721

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 Regulation: PTEN ---> RAC1 26166433 10.1038/ncomms8721  
 Regulation: PTEN ---> RAC1 26166433 10.1038/ncomms8721  
 Regulation: PTEN ---> RAC1 27033067 10.1007/978-1-4939-3299-3\_2  
 Regulation: PTEN ---> RAC1 28710285 10.1042/BST20160269  
 Regulation: PTEN ---> RAC1 29361670 10.1152/ajprenal.00575.2017  
 Regulation: PTEN ---> RAC1 31481407 10.1128/IAI.00553-19  
 Regulation: PTEN ---> RAC1 22745590 10.1593/neo.12352  
 Regulation: PTEN ---> RAC1 23755300 10.1371/journal.pone.0066209  
 Regulation: PTEN ---> RAC1 23755300 10.1371/journal.pone.0066209  
 Regulation: PTEN ---> RAC1 23755300 10.1371/journal.pone.0066209  
 Regulation: PTEN ---> RAC1 24523903 10.1371/journal.pone.0088489  
 Regulation: PTEN ---> RAC1 24823941 10.1194/jlr.M048207  
 Regulation: PTEN ---> RAC1 10753747 10.1016/s0960-9822(00)00417-6  
 Regulation: PTEN ---> RAC1 10753747 10.1016/s0960-9822(00)00417-6  
 Regulation: PTEN ---> RAC1 19864456 10.1091/mbc.E09-08-069210.1091/mbc.e09-08-069  
 Regulation: PTEN ---> RAC1 23806663 10.1016/j.bbamcr.2013.06.00910.1016/j.bbamcr.  
 Regulation: PTEN ---> RAC1 29872505 10.18632/oncotarget.2534910.18632/oncotarget.  
 Regulation: PTEN ---> RAC1 34480897 10.1016/j.jbc.2021.101161  
 Regulation: PTEN ---> RAC1 17535963  
 Regulation: PTEN ---> RAC1 10.1042/BST20160269  
 Regulation: PTEN ---> RAC1 28642362 10.1083/jcb.201610102  
 Regulation: PTEN ---> RAC1 10.1128/IAI.00553-19  
 Regulation: PTEN ---> RAC1 16973299 10.1016/j.neuroscience.2006.07.049  
 Regulation: PTEN ---> RAC1 25829446 10.1126/scisignal.200584010.1126/scisignal.20  
 Regulation: PTEN ---> RAC1 25829446 10.1126/scisignal.200584010.1126/scisignal.20  
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 positive Expression: PTEN --> BF27107786 10.1016/j.toxlet.2016.04.015  
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 positive Expression: PTEN --> BF29412697 10.1089/cbr.2017.2306  
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 positive Expression: PTEN --> BF829 10.1016/j.cub.2017.02.015  
 positive Expression: PTEN --> BF35647006 10.3389/fsurg.2022.767611  
 Regulation: MAPK1 ---> PRR5L 22609986 10.1038/ncb2507  
 Regulation: MAPK1 ---> PRR5L 22609986 10.1038/ncb2507  
 Binding: PPARG ---- GPER1 31741264 10.1007/s11033-019-05196-6  
 Binding: PPARG ---- GPER1 10.1007/s11033-019-05196-6  
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 Regulation: PPARG ---> PAX8 19041825 10.1016/j.beem.2008.09.017  
 Regulation: PPARG ---> PAX8 10.1016/j.path.2013.10.001  
 Regulation: PPARG ---> PAX8 16179407  
 Regulation: PPARG ---> PAX8 12161538  
 Regulation: RBP1 ---> PPARG 20498279 10.1128/MCB.00014-1010.1128/MCB.00014-10  
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 positive Regulation: CD274 --> N36266281 10.1038/s41467-022-33739-2  
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positive Expression: MAPK1 --> GCLC 10.1016/S0006-291X(02)00816-1  
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 positive Expression: MAPK1 --> (19328227 10.1016/j.freeradbiomed.2009.03.016  
 positive Expression: MAPK1 --> (19328227 10.1016/j.freeradbiomed.2009.03.016  
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 positive Expression: MAPK1 --> (22864849 10.1007/s00204-012-0913-4  
 positive Expression: MAPK1 --> (26424114 10.1016/j.freeradbiomed.2015.08.01110.1016/j.  
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 positive Expression: MAPK1 --> (15683710 10.1016/j.freeradbiomed.2004.11.012  
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 positive Expression: MAPK1 --> (20399244 10.1016/j.tox.2010.04.003  
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 positive Expression: MAPK1 --> GCLC  
 Regulation: STC2 ---> MAPK1 25816401 10.1177/0394632015572745  
 Regulation: STC2 ---> MAPK1 23187001 10.5483/bmbrep.2012.45.11.086  
 Regulation: STC2 ---> MAPK1 27878259 10.3892/mmr.2016.595110.3892/mmr.2016.5951  
 Regulation: STC2 ---> MAPK1 27878259 10.3892/mmr.2016.595110.3892/mmr.2016.5951  
 Regulation: STC2 ---> MAPK1 31162839 10.1002/ijc.3248710.1002/ijc.32487  
 Regulation: STC2 ---> MAPK1 35501821 10.1186/s13046-022-02370-w  
 MolTransport: CYP2J2 ---> AKT1 28554983 10.1194/jlr.M074229  
 MolTransport: CYP2J2 ---> AKT1 27416746 10.1111/ace1.1250710.1111/ace1.12507  
 MolTransport: CYP2J2 ---> AKT1 34639055 10.3390/ijms221910714  
 MolTransport: CYP2J2 ---> AKT1 25245389 10.1161/HYPERTENSIONAHA.114.0388410.1161/HYPE  
 MolTransport: CYP2J2 ---> AKT1 23041291 10.1016/j.prostaglandins.2012.09.00410.1016/j  
 MolTransport: CYP2J2 ---> AKT1 26859195 10.1097/FJC.0000000000000371  
 MolTransport: CYP2J2 ---> AKT1 22223859 10.1194/jlr.M017319  
 MolTransport: CYP2J2 ---> AKT1 22223859 10.1194/jlr.M017319  
 MolTransport: CYP2J2 ---> AKT1 22223859 10.1194/jlr.M017319  
 Regulation: NET1 ---> AKT1 29769144 10.1186/s13058-018-0966-2  
 Regulation: NET1 ---> AKT1 32393835 10.1038/s41388-020-1315-3  
 Regulation: NET1 ---> AKT1 33839702 10.18632/aging.202845  
 Regulation: NET1 ---> AKT1 33839702 10.18632/aging.202845  
 Regulation: NET1 ---> AKT1 33839702 10.18632/aging.20284510.18632/aging.202845  
 Regulation: TP53 ---> BECN1 30529040 10.1016/j.pharmthera.2018.12.005  
 Regulation: TP53 ---> BECN1 10.1016/j.virusres.2012.03.010  
 Regulation: TP53 ---> BECN1 22472731 10.1016/j.virusres.2012.03.010  
 Regulation: TP53 ---> BECN1 25010388 10.1016/j.mam.2014.05.001  
 Regulation: TP53 ---> BECN1 27118659 10.1016/j.molonc.2016.04.001  
 Regulation: TP53 ---> BECN1 29417176 10.1007/s00018-018-2759-2  
 Regulation: TP53 ---> BECN1 29976630 10.21873/cgp.20083  
 Regulation: TP53 ---> BECN1 30089855 10.1038/s41374-018-0099-3  
 Regulation: TP53 ---> BECN1 29991800 10.1038/s41388-018-0395-9  
 Regulation: TP53 ---> BECN1 10.1152/ajpcell.00261.2018  
 Regulation: TP53 ---> BECN1 23233667 10.1074/jbc.M112.390245  
 Regulation: TP53 ---> BECN1 21178393 10.4161/cbt.11.2.14627  
 Regulation: TP53 ---> BECN1 23208502 10.1038/onc.2012.556  
 Regulation: TP53 ---> BECN1 24937773 10.2119/molmed.2014.00063  
 Regulation: TP53 ---> BECN1 22345153 10.1158/0008-5472.CAN-11-229110.1158/0008-547  
 Regulation: TP53 ---> BECN1 24841907 10.1021/jf500903g10.1021/jf500903g  
 Regulation: TP53 ---> BECN1 25208472 10.1111/jcmm.1238610.1111/jcmm.12386  
 Regulation: TP53 ---> BECN1 30807795 10.1016/j.neulet.2019.02.03610.1016/j.neulet.  
 Regulation: TP53 ---> BECN1 10.1172/JCI135536  
 Regulation: TP53 ---> BECN1 25584615 10.3390/ijms16011544

Regulation: TP53 ---> BECN1 25198662 10.3727/096504014X1402416045908710.3727/09650  
Regulation: TP53 ---> BECN1 21765470 10.1038/onc.2011.295  
Regulation: TP53 ---> BECN1  
Regulation: TP53 ---> BECN1 33297472 10.3390/ijms21239325  
Regulation: TP53 ---> BECN1 33556475 10.1016/j.matbio.2021.02.001  
Regulation: TP53 ---> BECN1 34119535 10.1016/j.mvr.2021.10420710.1016/j.mvr.2021.1  
Regulation: TP53 ---> BECN1 34236569 10.1007/s10495-021-01682-0  
positive Expression: MAPK1 --> F28363868 10.1016/j.bbrc.2017.03.152  
positive Expression: MAPK1 --> F28288820 10.1016/j.bcp.2017.03.003  
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positive Expression: MAPK1 --> F19531467 10.1074/jbc.M109.028084  
positive Expression: MAPK1 --> F19531467 10.1074/jbc.M109.028084  
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positive Expression: MAPK1 --> F10930401 10.1074/jbc.M002324200  
positive Expression: MAPK1 --> F10930401 10.1074/jbc.M002324200  
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positive Expression: MAPK1 --> F22766885 10.1194/jlr.D029546  
positive Expression: MAPK1 --> F30017554 10.1016/j.jaci.2018.06.033  
positive Expression: MAPK1 --> F33126082 10.1016/j.molimm.2020.10.008  
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positive Expression: MAPK1 --> F29331731 10.1016/j.fct.2018.01.013  
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positive Expression: MAPK1 --> F31883986 10.1016/j.fct.2019.111092  
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positive Expression: MAPK1 --> F31030852 10.1016/j.vetmic.2019.03.005  
positive Expression: MAPK1 --> F31030852 10.1016/j.vetmic.2019.03.005  
positive Expression: MAPK1 --> F29609010 10.1016/j.jep.2018.03.037  
positive Expression: MAPK1 --> F28095354 10.1016/j.biopha.2017.01.041  
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positive Expression: MAPK1 --> F28647573 10.1016/j.cellsig.2017.06.012  
positive Expression: MAPK1 --> F27343699 10.1016/j.phrs.2016.06.022  
positive Expression: MAPK1 --> F31546014 10.1016/j.phrs.2019.104446  
positive Expression: MAPK1 --> F32707231 10.1016/j.phrs.2020.105090  
positive Expression: MAPK1 --> F28899709 10.1016/j.pupt.2017.09.002  
positive Expression: MAPK1 --> F28282576 10.1016/j.intimp.2017.03.003  
positive Expression: MAPK1 --> F28666238 10.1016/j.intimp.2017.06.022  
positive Expression: MAPK1 --> F29310107 10.1016/j.intimp.2018.01.001  
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positive Expression: MAPK1 --> F26110105 10.1016/j.fob.2015.06.001  
positive Expression: MAPK1 --> PTGS2 10.1016/j.genrep.2020.100972  
positive Expression: MAPK1 --> F16796978 10.1016/j.ajog.2006.05.014  
positive Expression: MAPK1 --> F17071582 10.2353/ajpath.2006.060178  
positive Expression: MAPK1 --> F21356386 10.1016/j.ajpath.2010.11.074  
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positive Expression: MAPK1 --> F16930556 10.1016/j.bbrc.2006.07.214  
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positive Expression: MAPK1 --> F17222389 10.1016/j.bbrc.2006.12.174  
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positive Expression: MAPK1 --> PTGS2 10.1016/j.archoralbio.2012.04.015  
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positive Expression: MAPK1 --> F17222389 10.1016/j.bbrc.2006.12.174  
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positive Expression: MAPK1 --> F20883667 10.1016/j.bbrc.2010.09.095  
positive Expression: MAPK1 --> F20883667 10.1016/j.bbrc.2010.09.095  
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positive Expression: MAPK1 --> F16256955 10.1016/j.bcp.2005.09.023  
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positive Expression: MAPK1 --> F24239652 10.1016/j.taap.2013.11.002  
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 positive Regulation: PTGS2 --> M27819025 10.1155/2016/9351787  
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 positive Regulation: PTGS2 --> MAPK1 10.1016/j.ijcard.2018.12.077  
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negative PromoterBinding: TP53 --23608884 10.1038/leu.2013.125  
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negative PromoterBinding: TP53 --30097848 10.1007/s12035-018-1277-4  
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Regulation: PTGS2 ---> MAPK1 22120676 10.1016/j.bcp.2011.11.008  
Regulation: PTGS2 ---> MAPK1 21565184 10.1016/j.yexmp.2011.04.014  
Regulation: PTGS2 ---> MAPK1 17382352 10.1016/j.lfs.2007.02.008  
Regulation: PTGS2 ---> MAPK1 20470889 10.1016/j.nbd.2010.05.005  
Regulation: PTGS2 ---> MAPK1 17085321 10.1016/j.prostaglandins.2006.08.006  
Regulation: PTGS2 ---> MAPK1 10.1067/mai.2002.129705  
Regulation: PTGS2 ---> MAPK1 23810444 10.1016/j.intimp.2013.06.008  
Regulation: PTGS2 ---> MAPK1 24975097 10.1016/j.ejphar.2014.06.027  
Regulation: PTGS2 ---> MAPK1 10.1016/S1556-0864(16)30013-2  
Regulation: PTGS2 ---> MAPK1 10969080  
Regulation: PTGS2 ---> MAPK1 9291137  
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Regulation: PTGS2 ---> MAPK1 21737546 10.1681/ASN.2010111149  
Regulation: PTGS2 ---> MAPK1 25785965 10.1371/journal.pone.0119416  
Regulation: PTGS2 ---> MAPK1 26884798 10.1155/2016/8981650  
Regulation: PTGS2 ---> MAPK1 11891194 10.1016/S0002-9440(10)64918-8  
Regulation: PTGS2 ---> MAPK1 16396944 10.1152/ajprenal.00267.2005  
Regulation: PTGS2 ---> MAPK1 17318410 10.1007/s11010-007-9411-z  
Regulation: PTGS2 ---> MAPK1 19584262 10.1158/1541-7786.MCR-08-049310.1158/1541-778  
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Regulation: PTGS2 ---> MAPK1 20035047 10.2353/ajpath.2010.09022210.2353/ajpath.2010  
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Regulation: PTGS2 ---> MAPK1 27819025 10.1155/2016/9351787  
Regulation: PTGS2 ---> MAPK1 12604350 10.1016/S0006-291X(03)00187-6  
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positive Regulation: NGF --> RAC 17561310 10.1016/j.neuint.2007.04.032  
positive Regulation: NGF --> RAC 20144672 10.1016/j.neuint.2010.01.015  
positive Regulation: NGF --> RAC 20144672 10.1016/j.neuint.2010.01.015  
positive Regulation: NGF --> RAC 20144672 10.1016/j.neuint.2010.01.015  
positive Regulation: NGF --> RAC 20307615 10.1016/j.neuint.2010.03.005  
positive Regulation: NGF --> RAC 20307615 10.1016/j.neuint.2010.03.005  
positive Regulation: NGF --> RAC 20307615 10.1016/j.neuint.2010.03.005  
positive Regulation: NGF --> RAC 17055158 10.1016/j.neulet.2006.10.008  
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positive Regulation: NGF --> RAC 18593598 10.1016/j.cellsig.2008.06.002  
positive Regulation: NGF --> RAC 18593598 10.1016/j.cellsig.2008.06.002  
positive Regulation: NGF --> RAC 18558478 10.1016/j.cellsig.2008.05.002  
positive Regulation: NGF --> RAC1 10.1016/j.mcn.2005.08.006  
positive Regulation: NGF --> RAC1 10.1016/j.mcn.2005.08.006  
positive Regulation: NGF --> RAC1 10.1016/j.mcn.2005.08.006  
positive Regulation: NGF --> RAC1 10.1016/j.mcn.2005.08.006  
positive Regulation: NGF --> RAC1 10.1016/j.mcn.2005.08.006  
positive Regulation: NGF --> RAC1 10.1016/j.mcn.2005.08.006  
positive Regulation: NGF --> RAC1 10.1016/j.mcn.2005.08.006  
positive Regulation: NGF --> RAC 20347391 10.1016/j.molmed.2010.02.004  
positive Regulation: NGF --> RAC 22578496 10.1016/j.neuron.2012.04.015  
positive Regulation: NGF --> RAC 23601108 10.1016/j.chom.2013.03.007  
positive Regulation: NGF --> RAC 16168664 10.1016/j.mcn.2005.08.006  
positive Regulation: NGF --> RAC 16168664 10.1016/j.mcn.2005.08.006  
positive Regulation: NGF --> RAC 16168664 10.1016/j.mcn.2005.08.006  
positive Regulation: NGF --> RAC 16168664 10.1016/j.mcn.2005.08.006  
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positive Regulation: NGF --> RAC 16168664 10.1016/j.mcn.2005.08.006  
positive Regulation: NGF --> RAC 16168664 10.1016/j.mcn.2005.08.006  
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positive Regulation: NGF --> RAC 17535963  
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positive Regulation: NGF --> RAC 17535963  
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 positive Regulation: NGF --> RAC 20333299 10.1371/journal.pone.0009647  
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 Expression: AKT1 ---> ABCC1 22445357 10.1016/j.imlet.2012.03.005  
 Expression: AKT1 ---> ABCC1 22445357 10.1016/j.imlet.2012.03.005  
 Expression: AKT1 ---> ABCC1 22537907 10.1016/j.phymed.2012.03.008  
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 Expression: AKT1 ---> ABCC1 32973135 10.1038/s41419-020-02998-6  
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 Expression: AKT1 ---> ABCC1 23392708 10.1007/s11596-013-1071-5  
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 Expression: AKT1 ---> ABCC1 17215852 10.1038/sj.leu.2404523  
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 Expression: AKT1 ---> ABCC1 10.1016/j.phymed.2012.03.008  
 Expression: AKT1 ---> ABCC1 23940624 10.1371/journal.pone.0070685  
 Expression: AKT1 ---> ABCC1 23940624 10.1371/journal.pone.0070685  
 Expression: AKT1 ---> ABCC1 23940624 10.1371/journal.pone.0070685  
 Expression: AKT1 ---> ABCC1 23051672 10.1016/j.ejphar.2012.09.046  
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 Expression: AKT1 ---> ABCC1  
 Expression: AKT1 ---> ABCC1 33231085 10.4149/neo\_2020\_200605N604  
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 negative Regulation: RAI2 ---| AF 33782811 10.1007/s10549-021-06176-w  
 negative Regulation: RAI2 ---| AF 29796120 10.1186/s13148-018-0501-410.1186/s13148-018-0  
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 Regulation: NGF ---> PTEN 22465479 10.1016/j.yexcr.2012.03.006  
 Regulation: NGF ---> PTEN 20869442 10.1016/j.mcn.2010.09.006  
 Regulation: NGF ---> PTEN 23500101 10.1016/j.neuroscience.2013.02.059  
 Regulation: NGF ---> PTEN 16723502  
 Regulation: NGF ---> PTEN 16723502  
 Regulation: NGF ---> PTEN 16723502  
 Regulation: NGF ---> PTEN 16723502  
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 Regulation: NGF ---> PTEN 16723502  
 Regulation: NGF ---> PTEN 20237279  
 Regulation: NGF ---> PTEN 28264976 10.1523/JNEUROSCI.2923-16.2017  
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 Regulation: NGF ---> PTEN 22918949 10.1091/mbc.E12-05-0367  
 Regulation: NGF ---> PTEN 22918949 10.1091/mbc.E12-05-0367  
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 Regulation: NGF ---> PTEN 16723502 10.1091/mbc.e05-12-1144  
 Regulation: NGF ---> PTEN 10.1016/j.yexcr.2012.03.006  
 Regulation: NGF ---> PTEN 10.1523/JNEUROSCI.2923-16.2017  
 Regulation: NGF ---> PTEN 10.1523/JNEUROSCI.2923-16.2017  
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 Regulation: NGF ---> PTEN 19070673 10.1016/j.cellbi.2008.11.010  
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 Regulation: SFRP1 ---> NOTCH1 21478884 10.1038/nm.2794  
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 Regulation: SFRP1 ---> NOTCH1 27985737

Regulation: SFRP1 ---> NOTCH1

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positive Regulation: NOTCH1 --> 29160307 10.1038/nature24998

positive Regulation: NOTCH1 --> 29160307 10.1038/nature24998

positive Regulation: NOTCH1 --> 29160307 10.1038/nature24998

positive Regulation: NOTCH1 --> 23688168 10.1186/1471-2407-13-244

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positive Regulation: NOTCH1 --> 23688168 10.1186/1471-2407-13-244

positive Regulation: NOTCH1 --> 23688168 10.1186/1471-2407-13-244

positive Regulation: NOTCH1 --> 23688168 10.1186/1471-2407-13-244

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positive Regulation: NOTCH1 --> 23688168 10.1186/1471-2407-13-244

positive Regulation: NOTCH1 --> 23688168 10.1186/1471-2407-13-244

positive Regulation: NOTCH1 --> 34425253 10.1016/j.cdev.2021.203735

positive Regulation: NOTCH1 --> RAC1 10.2174/1389450116666150825113035

positive Regulation: NOTCH1 --> 28268126 10.1016/j.mcn.2017.03.001

positive Regulation: NOTCH1 --> 29058721 10.1038/ncb3628

positive Regulation: NOTCH1 --> 36241874 10.1038/s41423-022-00930-w

positive Regulation: NOTCH1 --> 36241874 10.1038/s41423-022-00930-w

negative Regulation: TP53 ---| CI 12034755

Expression: BECN1 ---> TP53 10.1016/j.semcancer.2019.07.013

Expression: BECN1 ---> TP53 24858802 10.1016/j.bcp.2014.05.009

Expression: BECN1 ---> TP53 24858802 10.1016/j.bcp.2014.05.009

Expression: BECN1 ---> TP53 27559856 10.1080/15548627.2016.1217380

Expression: BECN1 ---> TP53 29230017 10.1038/s41556-017-0007-x

Expression: BECN1 ---> TP53 29991800 10.1038/s41388-018-0395-9

Expression: BECN1 ---> TP53 10.1530/REP-18-0243

Expression: BECN1 ---> TP53 10.1007/978-981-15-0602-4\_1

Expression: BECN1 ---> TP53 23486312 10.4161/auto.24132

Expression: BECN1 ---> TP53 23542691 10.1038/nn.3365

Expression: BECN1 ---> TP53 24256242 10.1042/BST20130185

Expression: BECN1 ---> TP53 25180518 10.4161/auto.34398

Expression: BECN1 ---> TP53 26530936 10.3892/i.jo.2015.3227

Expression: BECN1 ---> TP53 21962518 10.1016/j.cell.2011.08.03710.1016/j.cell.2011

Expression: BECN1 ---> TP53 30539860 10.4103/0973-1482.20489810.4103/0973-1482.204

Expression: BECN1 ---> TP53 24833845 10.3748/wjg.v20.i17.4953

Expression: BECN1 ---> TP53 23466706 10.4161/cc.24128

Expression: BECN1 ---> TP53 22481206

Expression: BECN1 ---> TP53 10.1530/ERC-16-0359

Expression: BECN1 ---> TP53 34678225 10.1016/j.bcp.2021.114797

negative Expression: PPP1R3C ---| 12727934

Expression: SPP1 ---> PTEN 27063991 10.1016/j.lfs.2016.04.00310.1016/j.lfs.2016.0

Expression: SPP1 ---> PTEN 28875010

Expression: SPP1 ---> PTEN 24039584 10.1371/journal.ppat.1003623

Expression: SPP1 ---> PTEN 19683677 10.1016/j.chom.2009.07.008

Expression: SPP1 ---> PTEN	19286136	10.1016/j.chom.2009.01.005
Expression: SPP1 ---> PTEN	28928218	10.1074/jbc.M117.797787
Expression: SPP1 ---> PTEN	28928218	10.1074/jbc.M117.797787
Expression: PTEN ---> SPP1	33130075	10.1016/j.lfs.2020.118680
Expression: PTEN ---> SPP1	19549529	10.1053/j.gastro.2009.06.039
Expression: PTEN ---> SPP1	28505114	10.3390/ijms18051058
Expression: PTEN ---> SPP1	24893171	10.1371/journal.pone.0097544
Expression: PTEN ---> SPP1	15705860	
Expression: PTEN ---> SPP1	15705860	
Expression: PTEN ---> SPP1	12460992	10.1074/jbc.M209299200
Expression: PTEN ---> SPP1	10970827	10.1165/ajrcmb.23.3.4002
Expression: PTEN ---> SPP1	24379438	10.1128/MCB.01384-13
Expression: PTEN ---> SPP1	12460992	
Expression: PTEN ---> SPP1	34240392	10.1007/s13577-021-00571-7





0.04.002  
SCI.4024-13.2014  
freeradbiomed.2014.12.019

09.004





. 2020. 1749790  
019. 05. 015  
08-01-132068  
3. 021  
01(11)60032-8

00000000961



.g. 2018. 01. 004

.010-3

1. 03. 152

.150-7

2014. 06. 020





.1  
2014. 01. 028  
93484-2

one. 0065751  
01. 004





027-3

027-3

2-4934. 2009. 00709. x

2-4934. 2009. 00709. x

5

2-4934. 2012. 01602. x

0-0277. 2008. 00781. x

0-0277. 2008. 00781. x

2019. 01. 001

2020. 129836







i53733

2016. 08. 015



13113  
13113

·05239-3

neuroscience.2021.04.010  
00571-x

017.11.009

l. 06. 004



enta. 2008. 10. 001



2. CCR-15-0016  
421-2  
2. CAN-14-3362  
2. CAN-14-3362  
17. 02. 006  
986-y

i\_18  
1. 104806  
1. 104806

·04293-4

.nes10020236



21914  
:7  
·01372-y

i2

one.0085116





2010. 10. 007

:8









.g. 2018. 03. 013



0241

one. 0111860  
one. 0111860

:

.3







. 2020. 1749790  
. 2020. 1749790  
. 2020. 1749790

-129  
;3

freeradbiomed. 2014. 02. 023  
one. 0106812





0.12.002

0.03.014

4

14008  
14008  
8-19. 2020

02147-z10. 1038/s41580-019-0199-y10. 1016/j. cell. 2017. 04. 00110. 1038/nrm. 2017. 9510. 1  
02147-z10. 1038/s41580-019-0199-y10. 1016/j. cell. 2017. 04. 00110. 1038/nrm. 2017. 9510. 1  
02147-z10. 1038/s41580-019-0199-y10. 1016/j. cell. 2017. 04. 00110. 1038/nrm. 2017. 9510. 1



01812\_16625

017.10.033





·89220-5  
·89220-5



2.011

017.08.028

7

24770  
0152  
403-9  
403-9  
15  
03556-4

4

03047-2

2010. 02. 001

1599-5

100000000804

ies9020207

088-x

i5

9-7006. 2008. 00904. x

913-1

:913-1  
:913-1  
:913-1

9-7006. 2009. 01302. x  
9-7006. 2009. 01302. x  
9-7006. 2009. 01302. x  
9-7006. 2009. 01302. x

2. CCR-15-0016  
2  
919-y  
627

3. MCT-20-1112  
3. MCT-20-1112

2021. 119144



. 03. 010  
87305

29788

02550-w10. 1038/s41575-020-0310-z10. 1053/j. gastro. 2016. 11. 04810. 1038/nrclinonc. 201  
01972-0

21914  
2018.03.002  
2018.03.002  
n.2018.e01039  
01372-y  
bio.3001199

418-y

418-y





·03185-3

08.010

.g. 2013. 02. 018

one.0071453

i1

i1

i1









2.011





0704

07.021

2. 2021. 1906500

19033

19033

2. CAN-13-3076

0847-9  
02. CCR-08-0629  
18518

02. CAN-13-3590  
021. 112631  
02020. 1761748  
0247-x

-149







00348-510. 3322/caac. 2149210. 1056/NEJMr171571510. 1111/j. 1600-0714. 2007. 00582. x10.

HA. 107. 164749

!5

!5

.04308

.4

.4

1873



i. issn. 1009-2137. 2015. 03. 015



0625-9  
10.03.015  
one.0019139

one.0077922  
one.0102118

01905\_17948

00504-4



01809\_15810  
cnki. cjcmm. 20180601. 001  
l. 04. 034

107695



;/2046-3758. 108. BJR-2020-0127. R2

. 05. 023  
082-0

.6

res. 2010. 11. 062

15

13. 020

1373-x

g. 2014. 06. 007

'959





13113  
13113

neuroscience.2021.04.010

00571-x

. 2016. 4

.150-7

2021. 107675

2021. 107675

issn. 1009-3419. 2014. 02. 13  
12984

i290  
i290



01.004

one.0065751

172

pat.1007100

0106N18



257-9

6. MCR-14-0177





09.06.024

0276-1

2

1

0675-2

0

2014.01.028

choralbio.2014.07.013

070

3.11.070





l. 08. 025

m. 2008. 09. 003

·choralbio. 2009. 12. 003

00000000192

0226-x



н. 2009. 03. 015  
3. МСТ-09-0148

16. 05. 003

i. 06. 057

15

01718-z10. 1016/j. critrevonc. 2020. 10298810. 1016/S0925-5710(98)00038-310. 3109/07388

0913-4

freeradbiomed. 2015. 08. 011

'2. CAN-20-0505

opat. 1007100

1040-z







. 4449

49021-3



;-4934.2008.00311.x

;-0538









0

.g. 2012. 05. 011

.4

0981

.y. 2015. 35



-15170-6  
g. 2018. 01. 004

0981

1-8612-5\_9  
1-8612-5\_9

1. 2021. 1906500  
07. 021

2019. 172658

one. 0095136  
4. 019

l/j. issn. 1671-5411. 2018. 07. 001















010-0  
2013. 10. 001  
069-4  
972-x  
2019. 109306

19281

19281

pat. 1007100

biomaterials.2014.08.016

000001806

i3  
i606

0248-0

0759-5

033231

orgbio.2019.110989  
85523

8.010

.08.037  
898



one. 0066275

l. 090222

17

17

.647-3

one. 0106812



1. 16

2018. 05. 020

13







1289-6

0.026

g. 2018.03.013

16. MCR-21-0149









1027-3

1027-3

2015. 11. 006

2016. 12. 006

2020. 110769

2. CCR-18-0867



one. 0071453

i1

i1

i1

12984



5729. 2019. 036

·02951-7

freeradbiomed.2021.06.025

85.2009

02.006

013.07.011

.3

2.007  
17.016  
2019.172667

'5  
'5

2018. 08. 102











.211

.5

6e3282f343e1

.8

649-y

6.11.045



027-3  
027-3  
2015. 11. 006  
2016. 12. 006  
2020. 110769

090803

ie318297d741

i805





021.106001  
1.05.017  
one.0018823  
'9  
'9

.539-9  
.539-9



.51. 2009  
090. 2012

01  
01







1895-9

g. 2017. 06. 012  
otobiol. 2017. 10. 006  
0067X

06.008

10.1615/JEnvironPatholToxicolOncol.2018026684

01

01

2019.172586

0822

6. MCR-20-0173  
one. 0064771

3e31827912b8  
03.018  
013.07.011  
0ids.2016.01.021  
2.007

2018.01.040  
2018.08.102

06.MCR-20-0173  
2022.113290

i.2022.36.S1.R5122





01. 2020. 08. 007  
03. MCT-12-0342

361-2

361-2

2. CAN-12-2220

20. 101774

20. 101774

. 2020. 1838032

one. 0126176  
4016X14666990347437

:761-3

-01826-5

!. 05. 009

13355  
13355



'2. CAN-19-0950  
·04958-8



neuroscience.2012.01.002



206-5

418-y

418-y

3. MCT-10-0336  
. 2018. 1553607  
3. 12. 005  
00000003576

000-6

one. 0122179

.g. 2011. 09. 015

iber. 18. 18



ic. 2011. 07. 006  
04. 017

02. 187

02. 187





one. 0065821  
one. 0065821

n. 2016. 03. 001  
l. 08. 037  
019  
019  
019







:7

01372-y

one. 0004911  
434-7  
one. 0212749  
. 2020. 1711578

i3

.g. 2013. 02. 018

i2-0436. 2007. 00261. x

one. 0100515

17. 10. 033

2019. 03. 005

18-19. 2020



14008  
14008

. 2020. 1749790  
. 2020. 1749790  
. 2020. 1749790

·00275-3





one. 0106812





.00348-510.3322/caac.2149210.1056/NEJMr171571510.1111/j.1600-0714.2007.00582.x10.

.04308

.4  
.4  
.150-7  
12768

1697-7  
1697-7  
1697-7

03105-8

1. 2022. 2051266

18  
:069-4  
:069-4  
.625-y

018.03.014

1.01.060



1617-y  
2012. 11. 047  
17

1635-6  
1635-6



'8

1759-5

'476

res. 2010. 11. 062  
02. 005

one. 0019139  
2016. 04. 015

17  
2012. 11. 047  
0617-y

2015. 1029836



·01072-510. 1016/j. ygyno. 2018. 05. 01510. 1016/j. bulcan. 2017. 10. 00610. 2174/13894501179

·08671-110.1046/j.1471-4159.2003.01562.x10.1038/sj.onc.120696510.1016/j.neuroscien  
·02873-4

i3





ICI. 0936-16. 2016

'2. CAN-08-0579  
'2. CAN-08-0579  
'2. CAN-16-3470



00164

2015. 05. 014

2. CCR-17-1574

2. CCR-17-1574

-196

i1

854

18

17.08.028



1.02.187  
1.02.187



one. 0096466

19

3. MCT-07-2183

1. 03. 024

2. CAN-10-4531

1. 09. 008



22926

1. 09. 008

1. 09. 008

1. 115013

120. 112343

217-9

l. 06. 160  
l. 06. 160

·00756-8



2009. 09. 003  
2011. 11. 004

.. 12. 063  
'213  
2016. 06. 027  
00000002440

00000002440





2011. 06. 008

2017. 06. 089

.119-x

00519-x10. 3322/caac. 2133810. 1007/s11748-013-0246-010. 1016/j. athoracsur. 2018. 02. 01

12  
2013. 06. 009  
25349

105840  
105840

·03047-2

freeradbiomed. 2015. 08. 011

RTENSIONAHA. 114. 03884  
i. prostaglandins. 2012. 09. 004

'2. CAN-11-2291

2019. 02. 036

4014X14024160459087

04207

1030-x

12. CAN-09-2316

1609-0

HA. 112. 280399

neuro1. 2014. 05. 014



26473-7



























one. 0143663

12648-1

1805-8

08903  
08903

13. 056



6. MCR-08-0493

6. MCR-08-0493

6. MCR-08-0493

6. MCR-08-0493

6. MCR-09-0004

6. MCR-09-0004

090222

2011. 07. 011

2015. 09. 018

452

452

318-6

-00283-010. 1002/jcb. 2008010. 1016/j. arcmed. 2020. 02. 00510. 1016/j. beha. 2019. 05. 00810.

6. MCR-08-0493

6. MCR-08-0493

6. MCR-08-0493

6. MCR-08-0493

6. MCR-09-0004

6. MCR-09-0004

1. 090222













190045  
one.0070685

1501-4  
nes10061390

4017X14882829077237  
.01.013

.08.037  
.898

4.003









































































































038/sj. onc. 120566210. 1073/pnas. 050285710210. 1016/j. cell. 2008. 06. 02810. 1016/j. molc  
038/sj. onc. 120566210. 1073/pnas. 050285710210. 1016/j. cell. 2008. 06. 02810. 1016/j. molc  
038/sj. onc. 120566210. 1073/pnas. 050285710210. 1016/j. cell. 2008. 06. 02810. 1016/j. molc

























7. 15710. 1016/j. jhep. 2020. 11. 03710. 1038/s41572-021-00300-210. 1016/j.annonc. 2021. 04



































3322/caac.2138810.1016/S0140-6736(08)60728-X10.4065/83.4.48910.1038/sj.bjc.660251































































551. 2015. 101595710. 1038/nature0592510. 1080/15548627. 2016. 116435910. 21037/atm. 2019























































































































































































































3322/caac.2138810.1016/S0140-6736(08)60728-X10.4065/83.4.48910.1038/sj.bjc.660251





















1590653410.1186/s12885-018-5074-210.1016/j.ygyno.2014.05.01810.3892/ijo.2017.40931

ice. 2008. 07. 00110. 1371/journal. pone. 010537210. 1196/annals. 1332. 00810. 1111/j. 1476-5





































810.21037/cco.2017.07.0210.1016/j.oraloncology.2008.06.00210.1016/j.tox.2006.07.0















































1038/cdd.2017.18610.1016/j.cce11.2019.09.00810.1042/BCJ2017008010.1097/PP0.000000

























































































































.e1. 2010. 09. 02610. 1016/S1097-2765(01)00323-910. 1  
.e1. 2010. 09. 02610. 1016/S1097-2765(01)00323-910. 1  
.e1. 2010. 09. 02610. 1016/S1097-2765(01)00323-910. 1

























. 01210. 1158/2159-8290. CD-20-087310. 1038/s41591-



































010.1200/JC0.2015.61.292910.1126/science.120692































































doi:10.1371/journal.pone.0090151.g002























































































































































































































010.1200/JC0.2015.61.292910.1126/science.120692





















0. 1182/blood-2007-05-08868210. 1023/A:1010921313

1381.2009.00022.x10.1371/journal.pone.002189110.





































1110.1016/j.toxlet.2013.10.00410.1289/ehp.09010















































000000040810.1080/10428194.2017.128303210.3390/