

Supplemental information

Figure-S1. The UV-visible spectrum of LRSH.

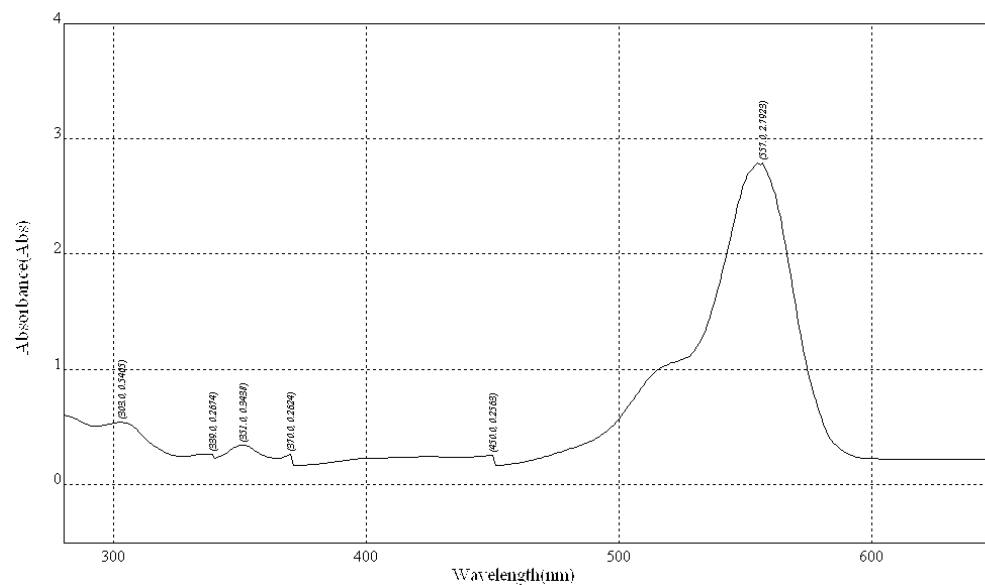


Figure-S2. The fluorescence spectra of LRSH at the same concentration excited at different wavelengths. (A) Excitation at 557 nm. (B) Excitation at 532nm. (C) Excitation at 305nm.

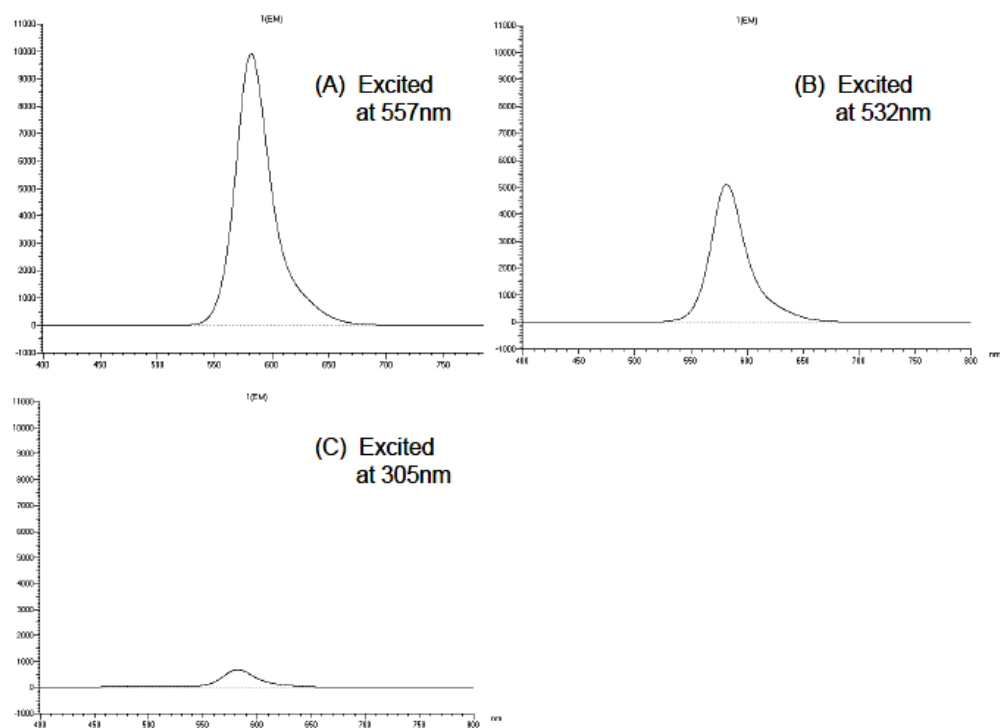
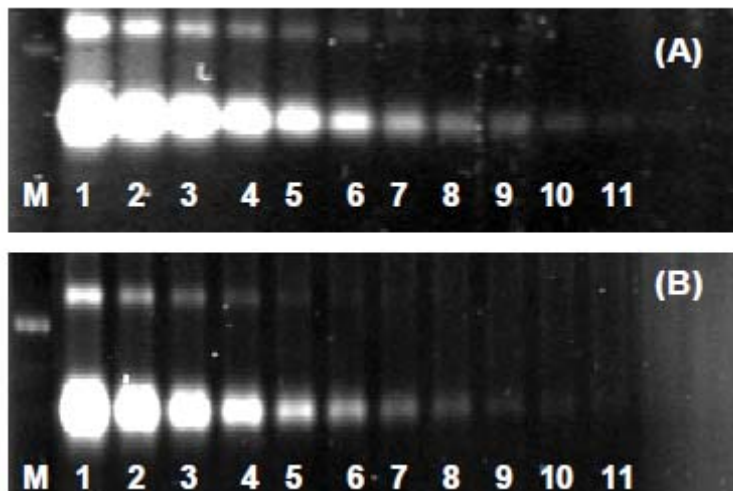


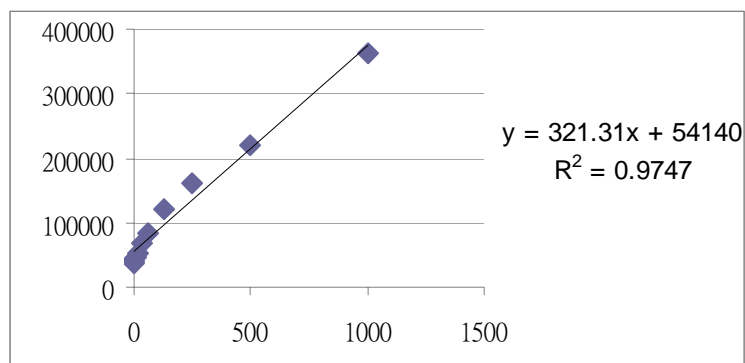
Figure S3. Detection limits comparison between LRSH and Pro-Q Emerald[®] 300 staining.



(A) Pro-Q Emerald[®] 300 and (B) LRSH staining. Two-fold serial dilutions of α 1-acid glycoproteins, ranging from 1 μ g to 0.95ng, are displayed in Lane 1 to Lane 11. M denotes molecular weight markers.

Figure S4. Linearity assay of in-gel LRSH staining examined using different imagers.

(A) Linearity assay (gel image acquired using a Typhoon 9210)



(B) Linearity assay (gel image acquired using a 305-nm UV transilluminator)

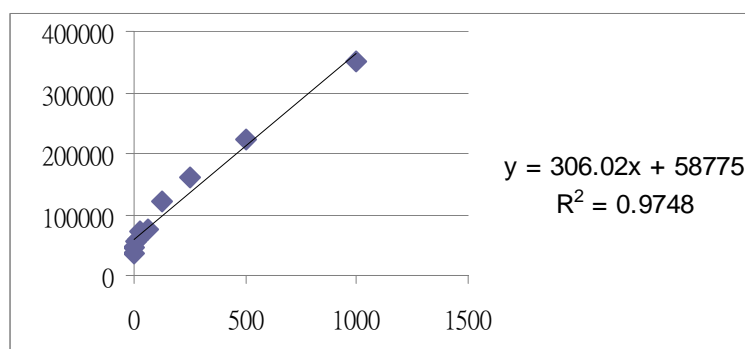
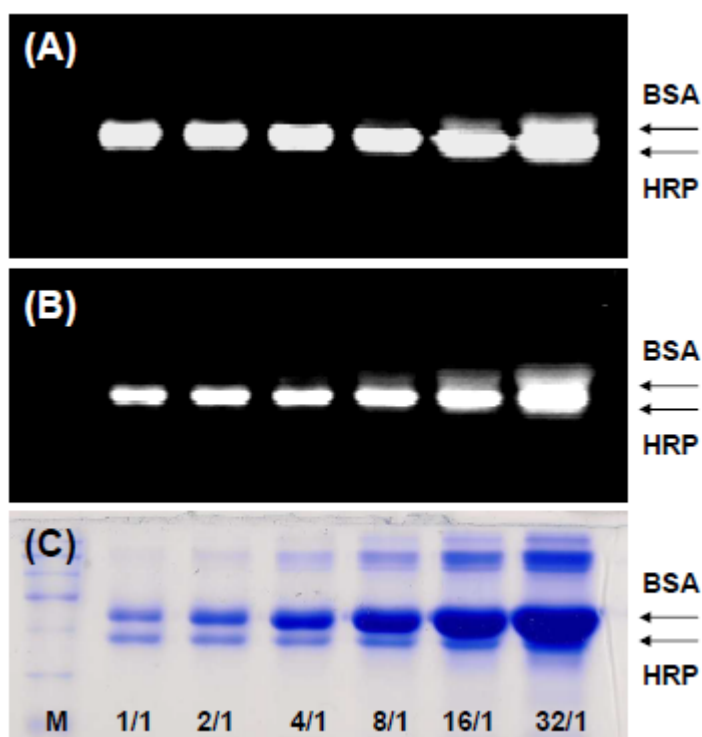


Figure S5. Specificity comparison between LRSH and Pro-Q Emerald[®] 300 staining.



Two-fold serial increases in the nonglycoprotein (BSA) / glycoprotein (horseradish peroxidase, HRP) ratio, ranging from 1/1 to 32/1. M represents standard protein molecular weight markers. (A) Pro-Q Emerald[®] 300 staining. (B) LRSH staining. (C) Post-staining of the same gel with Coomassie blue.

Figure S6. MS/MS spectrum of the other deglycosylated peptide NETHATYSNTLYLADEIIIR. N represents the deglycosylation site.

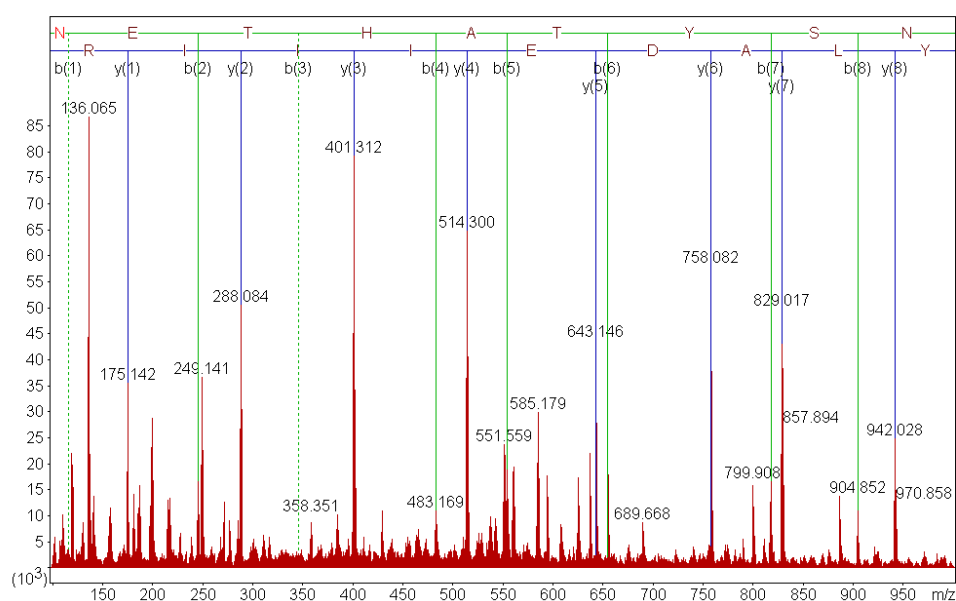


Table S1.

UROM_HUMAN				
Uromodulin				
Mass: 72451				
Total Score: 1563				
Start - End	Observed	Mr(calc)	Score	Peptide
548 - 554	457.70	913.44	37	R.FSVQMFR.F
520 - 526	477.64	953.49	48	K.YFIIQDR.C
179 - 185	491.57	981.45	47	R.TLDEYWR.S
450 - 459	512.57	1023.51	75	R.VGGTGMFTVR.M
386 - 395	538.12	1074.51	67	R.DGPCGTVLTR.N
357 - 365	559.21	1116.52	65	K.VFMYLSDSR.C
376 - 385	565.22	1128.59	77	R.DWVSVVTPAR.D
213 - 222	588.34	1174.58	61	R.MAETCVPVLR.C
437 - 449	707.27	1412.78	106	K.TALQPMVSALNIR.V
421 - 432	729.73	1457.66	75	K.INFACSYPLDMK.V
373 - 385	505.45	1513.76	41	R.DNRDWVSVVTPAR.D
532 - 547	853.59	1704.79	108	R.DSTIQVVENGESSQGR.F
179 - 185	868.64	1735.69	99	R.STEYGEGYACD T DLR.G
376 - 395	729.55	2185.09	39	R.DWVSVVTPARDGPCGTVLTR.N
450 - 459	520.63	1039.51	75	R.VGGTGMFTVR.M + Oxidation (M)
357 - 365	567.16	1132.52	40	K.VFMYLSDSR.C + Oxidation (M)
213 - 222	596.16	1190.57	77	R.MAETCVPVLR.C + Oxidation (M)
437 - 449	715.32	1428.77	85	TALQPMVSALNIR.V + Oxidation (M)
421 - 432	737.98	1473.66	38	K.INFACSYPLDMK.V + Oxidation (M)