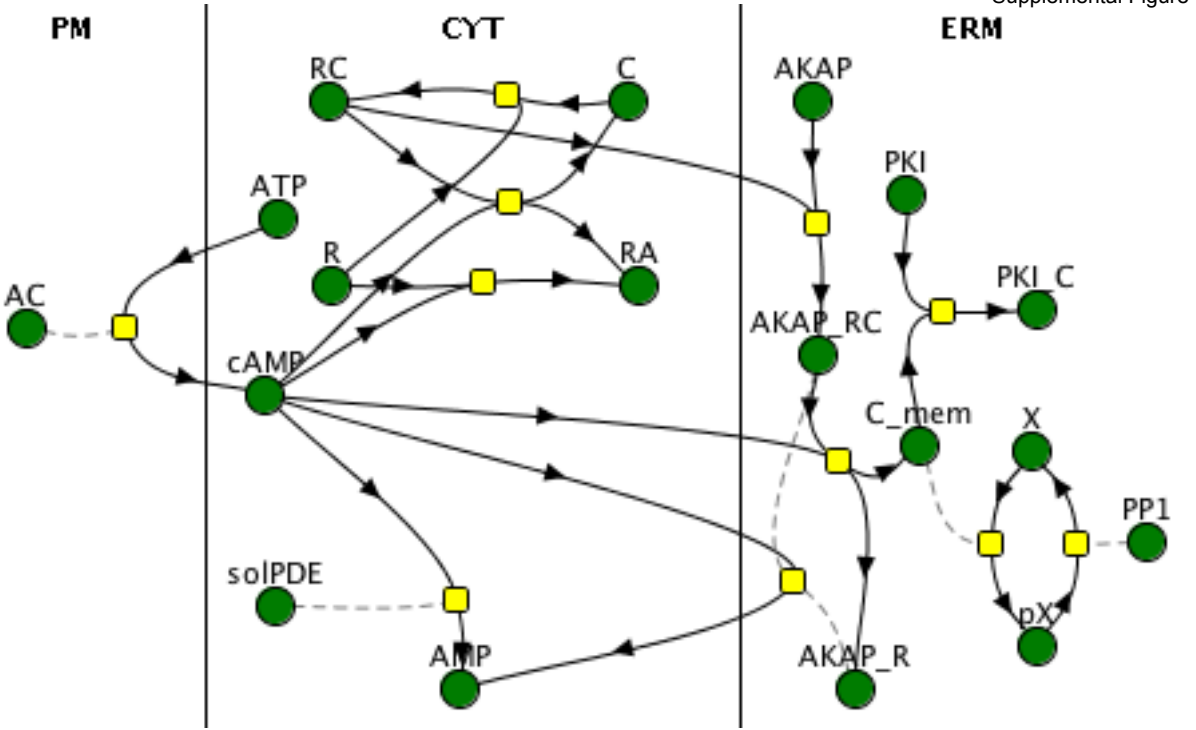
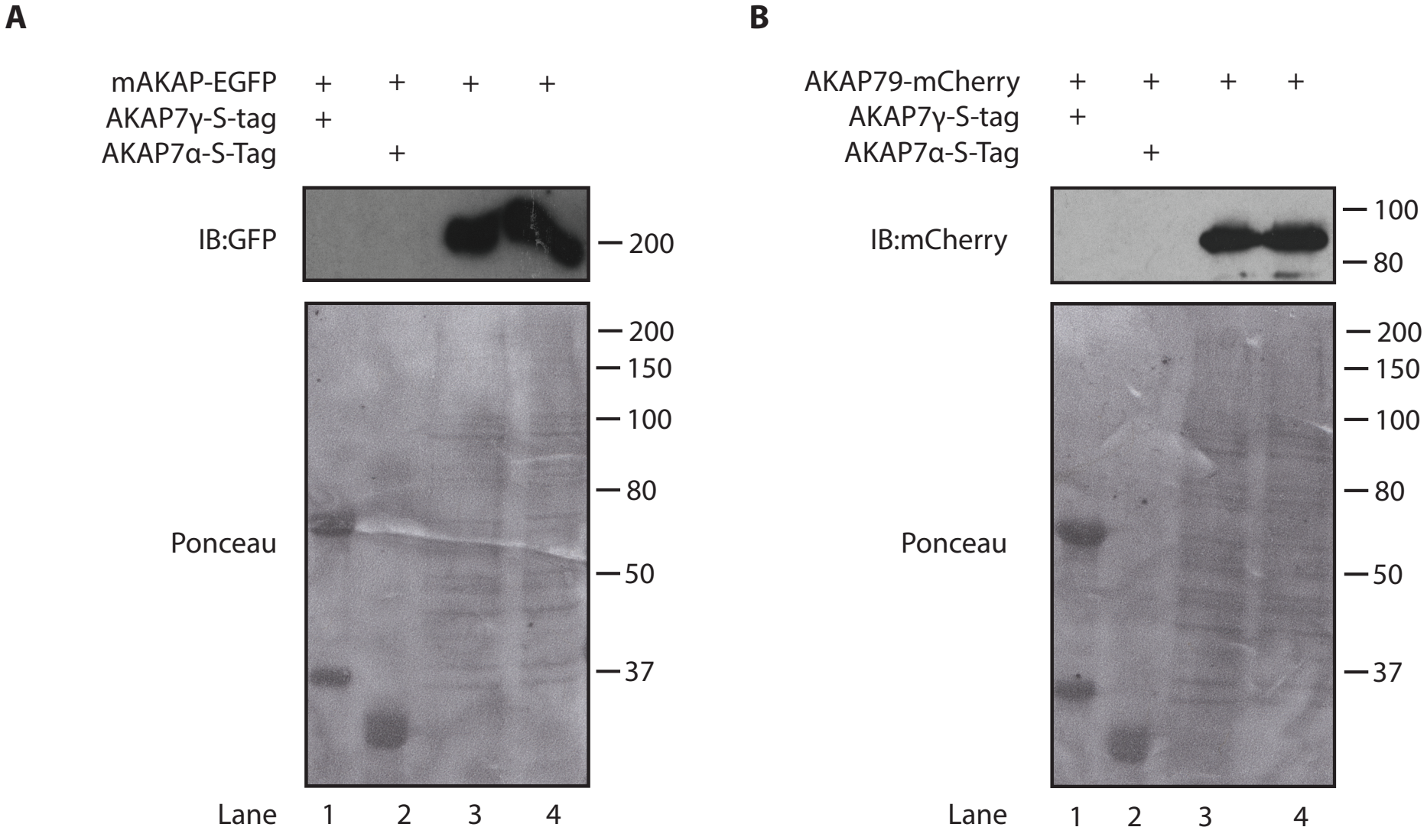
Reaction	Kinetics	kcat	Km	Kf	Kr	Reference
ATP --> cAMP	Henri-Michaelis-Menten	12 s^{-1}	11 μm			BRENDA Database
X --> pX	General	22.6 s^{-1}	65.2 molecules/μm^2			Masterson et. Al 2011
pX --> X	Henri-Michaelis-Menten	2.4 s^{-1}	65.0 molecules/μm^2			BRENDA Database
cAMP --> AMP (cyt)	Henri-Michaelis-Menten	2.0 s^{-1}	5.5 μm			BRENDA Database
cAMP --> AMP (mem)	Henri-Michaelis-Menten	0.098 s^{-1}	5.5 μm			
R + cAMP --> RA	Mass Action			100 $\mu m^{-1}s^{-1}$	2 s^{-1}	
C + R --> RC	Mass Action			0.31 $\mu m^{-1}s^{-1}$	0.00023 s^{-1}	Diskar 2010
RC + cAMP --> C + RA	Mass Action			1 $\mu m^{-1}s^{-1}$	0.177 $\mu m^{-1}s^{-1}$	Diskar 2010
AKAP_RC + cAMP --> AKAP_R + C_mem	Mass Action			1 $\mu m^{-1}s^{-1}$	0.177 $\mu m^{-1}s^{-1}$	Diskar 2010
AKAP + RC --> AKAP_RC	Mass Action			1 $\mu m^{-1}s^{-1}$	0.005 s^{-1}	Herberg et. al. 2000
PKI + C_mem --> PKI_C	Mass Action			1 $\mu m^{-1}s^{-1}$	0.01 s^{-1}	


PM
CYT
ERM
RC
C
AKAP
PKI
ATP
R
RA
PKI_C
AC
AKAP_RC
cAMP
C_mem
X
PP1
solPDE
pX
AMP
AKAP_R


A
mAKAP-EGFP + + + +
AKAP7γ-S-tag +
AKAP7α-S-Tag +
IB:GFP
200
Ponceau
200
150
100
80
50
37
Lane 1 2 3 4
B
AKAP79-mCherry + + + +
AKAP7γ-S-tag +
AKAP7α-S-Tag +
IB:mCherry
100
80
Ponceau
200
150
100
80
50
37
Lane 1 2 3 4