

Supplementary Table S2. Comparison of the cleavage sites between human and mouse PKs newly found in the study.

Symbols	Kinome names	Groups	Cleavage sequences ^a	
			Human	Mouse
ACVR1	ALK2	TKL	I <u>A</u> SD(269)↓M	I <u>A</u> SD(274)↓M
AKT2	AKT2	AGC	D <u>P</u> MD(121)↓Y	D <u>A</u> MD(121)↓Y
BMPR1B	ALK6	TKL	CSTD(50)↓G	CSTD(50)↓G
			DFVD(120)↓G	DFVD(120)↓G
CaMKK1	CaMKK1	Other	EEAD(32)↓ <u>G</u>	EEAD(32)↓ <u>E</u>
CSK	CSK	TK	DAPD(409)↓G	DAPD(409)↓G
CSNK1G1	CK1g1	CK1	VHVD(343)↓S	VHVD(343)↓S
eEF2K	eEF2K	Atypical	EGVD(14)↓G	EGVD(14)↓G
			D <u>H</u> LD(430)↓N	D <u>R</u> MD(429)↓N
HSPB8	H11	Atypical	MAD(3)↓G	MAD(3)↓G
MAP2K6	MAP2K6	STE	<u>E</u> FVD(289)↓F	<u>D</u> FVD(289)↓F
MAPK12	p38g	CMGC	SAVD(46)↓ <u>G</u>	SAVD(46)↓ <u>S</u>
MARK1	MARK1	CAMK	SATD(52)↓E	SATD(52)↓E
MKNK2	MNK2	CAMK	DQPD(32)↓H	—
			D <u>I</u> PD(58)↓A	D <u>I</u> PD(58)↓A
PDPK1	PDK1	AGC	S <u>H</u> PD(552)↓A	S <u>N</u> PD(555)↓A
PIM2	PIM2	CAMK	TDFD(198)↓G	TDFD(232)↓G
PRKAA1	AMPKa1	CAMK	TSLD(520)↓S	TSLD(505)↓S
PRKCI	aPKCi	PKC	TQRD(6)↓S	TQRD(6)↓S
PRKX	PRKX	AGC	ETPD(25)↓G	—
RIOK1	RIOK1	Atypical	EKDD(37)↓I	EKDD(37)↓I
RIOK3	RIOK3	Atypical	DTRD(139)↓D	DTRD(139)↓D
RPS6KA5	MSK1	AGC	D <u>G</u> GD(20)↓G	D <u>S</u> GD(19)↓G
			DELD(344)↓V	DELD(343)↓V
			TEMD(356)↓P	TEMD(355)↓P
SNARK	NuaK2	CAMK	VSED(546)↓S	VSED(553)↓S
TRIB3	TRB3	CAMK	VVPD(338)↓G	VVPD(338)↓G
ULK4	ULK4	Other	SQID(473)↓S	SQID(473)↓S

^a Underlines show different amino acids.
Numbers and "↓" mean the cleavage site.