

Appendix H. KINETWORKS™ CUSTOM ANTIBODY IMMUNOBLOTTING - Catalog Numbers - KCPS 1.0 and KCSS 1.0

The Kineteworks™ Custom KCPS 1.0 screen allows clients to choose up to 18 antibodies at a time for probing a single cell/tissue sample.

The Kineteworks™ Custom KCSS 1.0 screen allows clients to choose up to 3 antibodies at a time for probing up to 8 cell/tissue samples.

Over 650 antibodies available for detection of protein expression (378 pan-specific) and phosphorylation (273 phospho-site-specific) are listed.

Please note that Kinexus reserves the right to add, delete or substitute antibodies from this list from time to time without notification.

Target Protein Abbreviation	Target Protein Full Name	Ab Type	I.D. Code	Ab Reactivity			Actual Mol. Mass (kDa)	Obsv. Mol. Mass (kDa)	Link - Protein Refseq	Link - Swiss-Prot	Meta Row	Meta Col-um	Row	Col-um 1	Col-um 2
				Human	Human	Mouse	Rat	Human	Human	Human	Human	KAM 1.1 Microarray Spot Coordinates			
14-3-3 ζ	14-3-3 protein zeta (cross-reacts with other isoforms)	Pan-specific	NN001	T	T	T	28	24	NP_003397	P63104	1	1	1	1	2
Abl	Abelson proto-oncogene-encoded protein-tyrosine kinase	Pan-specific	NK001	T	T	T	123	133	NP_005148	P00519	1	1	1	5	6
ACK1 [ACK]	Activated p21cdc42Hs protein-serine kinase	Pan-specific	NK002	T	T	T	114	127	NP_005772	Q07912	1	1	2	1	2
AIF	Apoptosis inducing factor (programed cell death protein 8 (PDCD8))	Pan-specific	NN002	T	T	T	67	66	NP_004199	Q95831	1	1	2	5	6
AK2	Adenylate kinase 2	Pan-specific	NN003	T	T		26	24	NP_001616	P54819	1	1	2	9	10
ALK	Anaplastic lymphoma kinase	Pan-specific	NK003	T	T		176	92	AAB71619	Q9UM73	1	1	3	1	2
ALS2CR7 [PFTAIRE2]	Amyotrophic lateral sclerosis 2 chromosomal region candidate gene	Pan-specific	NK004	T	T	T	44	41	NP_631897	Q96Q40	1	1	3	3	4
AMPKβ	5'-AMP-activated protein kinase subunit beta-1	Pan-specific	NK005	T			30	38		Q9Y478	4	4	5	9	10
ANKRD3	Ankyrin repeat domain protein-serine kinase 3 (RIPK4, DIK1)	Pan-specific	NK006	T	T	T	92	108	NP_065690	P57078	1	1	3	7	8
APG1	Hsp 70-related heat shock protein 1 (osmotic stress protein 94 (OSP94))	Pan-specific	NN004	T	T	T	94	104	NP_055093	Q95757	1	1	3	9	10
APG2	Hsp 70-related heat shock protein 4 (HSP70RY)	Pan-specific	NN004	T	T	T	94	114	BAA75062	P34932	1	1	4	1	2
Arrestin β	Arrestin beta	Pan-specific	NN000	T	T	T	55			P49407	4	4	4	1	2
ASK1 [MAP3K5]	Apoptosis signal regulating protein-serine kinase	Pan-specific	NK007	T	T	T	155	99	NP_005914	Q99683	1	1	4	5	6
Aurora 2 [AurB]	Aurora 2 (AurB, beta) protein-serine kinase	Pan-specific	NK008	T	T	F	39	47	NM_003600	Q96GD4	1	1	2	7	8
Aurora 2 [AurB]	Aurora 2 (AurB, beta) protein-serine kinase	Pan-specific	NK008	T	T	F	39	47	NM_003600	Q96GD4	1	1	5	3	4
Aurora 2 [AurB]	Aurora 2 (AurB, beta) protein-serine kinase	Pan-specific	NK008	T	T	F	39	47	NM_003600	Q96GD4	2	2	5	9	10
Aurora 3 [AurC]	Aurora 3 (AurC, gamma) protein-serine kinase	Pan-specific	NK009	T	T	T	34	28	NP_003151	Q9UQB9	1	1	5	5	6
Axl	Axl proto-oncogene-encoded protein-tyrosine kinase	Pan-specific	NK010	T	T	T	97	92	NP_001690	P30530	1	1	5	7	8
Bak	Bcl2 homologous antagonist/killer (BCL2L7)	Pan-specific	NN000	T	T	T	23	21	NP_001179	Q16611	1	1	6	9	10
Bax	Apoptosis regulator Bcl2-associated X protein	Pan-specific	NN005	T	T	T	21	16	NP_620116	Q07812	1	1	7	1	2
Bcl2	B-cell lymphoma protein 2 alpha	Pan-specific	NN006	T	T	T	26	24	NP_000624	P10415	1	1	7	3	4
Bcl-XL	Bcl2-like protein 1	Pan-specific	NN007	T	T	T	26	27	NP_612815	Q07817					
Bcl-xS/L	Bcl-xS/L	Pan-specific	NN008	T	T	T	-19	27 + 13	NP_612815	Q07817	1	1	7	5	6
Bid	BH3 interacting domain death agonist	Pan-specific	NN009	T			22	29	NP_001187	P55957	1	1	7	7	8
BLK	B lymphoid tyrosine kinase	Pan-specific	NK011	T	T	T	58	55	NP_001706	P51451	1	1	7	9	10
BMX (Etk)	Bone marrow X protein-tyrosine kinase	Pan-specific	NK012	T	T	T	78	69	NP_001712	P51813	1	1	8	3	4
BRD2	Bromodomain-containing protein-serine kinase 2	Pan-specific	NK013	T	T	T	88	82	NP_005095	P25440	1	1	8	9	10
Btk	Bruton's agammaglobulinemia tyrosine kinase	Pan-specific	NK014	T	T	F	76	65	NP_000052	Q06187	1	2	1	1	2
BUB1A	BUB1 mitotic checkpoint protein-serine kinase	Pan-specific	NK015	T	T	T	122	112	NP_004327	Q43683	1	2	1	5	6
CaMK1δ	Calcium/calmodulin-dep. protein-serine kinase 1 delta	Pan-specific	NK016-1	T	T	T	40	43	NP_003647	Q8IU85	1	2	1	9	10
CaMK1δ	Calcium/calmodulin-dep. protein-serine kinase 1 delta	Pan-specific	NK016-2	T	T	T	40	43	NP_003647	Q8IU85	1	2	2	1	2
CaMK1γ	Calcium/calmodulin-dep. protein-serine kinase 1 gamma	Pan-specific	NK017	T	T	T	53	50	NP_065172	Q96NX5	1	2	2	3	4
CAMK2β	Calcium/calmodulin-dep. protein-serine kinase 2 beta	Pan-specific	NK018-1	T	T	T	73	69	NP_742081	Q13554	1	2	2	9	10
CAMK2β	Calcium/calmodulin-dep. protein-serine kinase 2 beta	Pan-specific	NK018-2	T	T	T	73	69	NP_742081	Q13554	1	2	3	1	2
CAMK2δ	Calcium/calmodulin-dep. protein-serine kinase 2 delta	Pan-specific	NK019-1	T	T	T	56	64	NP_742126	Q13557	1	2	3	3	4
CAMK2δ	Calcium/calmodulin-dep. protein-serine kinase 2 delta	Pan-specific	NK019-2	T	T	T	56	64	NP_742126	Q13557	1	2	3	5	6
CAMK2γ	Calcium/calmodulin-dep. protein-serine kinase 2 gamma	Pan-specific	NK020	T	T	T	53	65	NP_751913	Q13555	1	2	3	7	8
CaMK4	Calmodulin-dependent protein-serine kinase 4	Pan-specific	NK021	T	T	T	52	65	NP_001735	Q16566					
CaMKK [CaMKK2]	Calmodulin-dependent protein-serine kinase kinase	Pan-specific	NK022	T	T	T	56	52	NP_006540	Q8N5S9	1	2	3	9	10
CAS	Cellular apoptosis susceptibility protein (CSE1L)	Pan-specific	NN010	T	T	T	110	94	NP_001307	P55060	1	2	4	1	2
CASK/Lin2	Calcium/calmodulin-dependent protein-serine kinase (Lin2 homoloa)	Pan-specific	NK023	T	T	T	105		AAB88125	O14936	1	2	4	3	4
CASP1	Pro-caspase 1 (Interleukin-1 beta convertase)	Pan-specific	NN011	T	T	T	45	40.5+45.5	NP_001214	P29466	1	2	4	5	6
CASP12	Pro-caspase 12 (mouse)	Pan-specific	NN020	T	T	T	48	50	NP_033938	Q08736	1	2	6	5	6
CASP2	Pro-caspase 2 (ICH1 protease)	Pan-specific	NN012	T	T	T	49	43	NP_001215	P42575	1	2	4	7	8
CASP3	Pro-caspase 3 (apopain, cysteine protease CPP32)	Pan-specific	NN013	T	T	T	32	29	NP_004337	P42574	1	2	4	9	10
CASP4	Pro-caspase 4 (ICH2 protease, ICE(rel)-II)	Pan-specific	NN014	T	F	F	43	38	NP_001216	P49662	1	2	5	1	2
CASP5	Caspase 5 (ICH3 protease, ICE(rel)-III)	Pan-specific	NN015	T	T	T	48	35+23	NP_004338	P51878	1	2	5	3	4
CASP6	Pro-caspase 6 (apoptotic protease Mch2)	Pan-specific	NN016	T	F	F	33	32	NP_001217	P55212	1	2	5	5	6

Target Protein	Target Protein Full Name	Ab Type	I.D. Code	Ab Reactivity			Actual Mol.	Obsv. Mol.	Link-Protein	Link-Swiss-	Meta Row	Meta Col-	Row	Col-umn 1	Col-umn 2								
				Human												Human	Human	Human	Human	Human	Microarray	Spot	Coordinates
				Human	Mouse	Rat																	
CASP7	Pro-caspase 7 (ICE-like apoptotic protease 3 (ICE-LAP3), Mch3)	Pan-specific	NN017	T	T	T	34	32	NP_01218	P55210	1	2	5	7	8								
CASP8	Pro-caspase 8 (ICE-like apoptotic protease 5 (ICE-LAP5), Mch5, FLICE)	Pan-specific	NN018-1	T	T	T	55	57	NP_001219	Q14790	1	2	5	9	10								
CASP8	Pro-caspase 8 (ICE-like apoptotic protease 5 (ICE-LAP5), Mch5, FLICE)	Pan-specific	NN018-2	T	T	T	55	57	NP_001219	Q14790	1	2	6	1	2								
CASP9	Pro-caspase 9 (ICE-like apoptotic protease 6 (ICE-LAP6), Mch6, APAF3)	Pan-specific	NN019	T	T	F	46	42	NP_033938	P55211	1	2	6	3	4								
Catenin β	Catenin (cadherin-associated protein) beta 1	Pan-specific	NN021	T	T	T	85	91	NP_001895	P35222	1	2	6	7	8								
Caveolin 2	Caveolin 2	Pan-specific	NN022	T	T	T	20			P51636	4	4	4	3	4								
CD45	Leukocyte common antigen CD45 receptor-tyrosine phosphatase (LCA)	Pan-specific	NP001	T	T	T	147	173	NP_002829	P08575	1	2	7	5	6								
Cdc25B	Cell division cycle 25B phosphatase	Pan-specific	NP002	T	T	T	65+64+61	63	NP_004349	P30305	1	2	7	7	8								
Cdc25C	Cell division cycle 25C phosphatase	Pan-specific	NP003	T	T	T	53	56	NP_001781	P30307	1	2	7	9	10								
CDC2L5 [CHED1]	Cell division cycle 2-like protein-serine kinase 5	Pan-specific	NK024	T	T	T	165	49	NP_003709	Q14004	1	2	8	1	2								
Cdc34	Cell division cycle 34 (ubiquitin-conjugating ligase)	Pan-specific	NN023	T	T	T	27	31	NP_004350	P49427	1	2	8	3	4								
Cdc42	Cell division control protein 42 homolog	Pan-specific	NN024	T	T	T	21	22		P60953	4	4	4	5	6								
CDK1 [CDC2]	Cyclin-dependent protein-serine kinase 1	Pan-specific	NK025	T	T	T	34	26	NP_001777	P06493	1	2	8	5	6								
CDK10	Cyclin-dependent protein-serine kinase 10 P15SLRE	Pan-specific	NK033	T	T	T	41	43	NP_003665	Q15131	1	3	3	7	8								
CDK2	Cyclin-dependent protein-serine kinase 2	Pan-specific	NK026-1	T	T	T	34	27	NP_001789	P24941	1	2	8	7	8								
CDK2	Cyclin-dependent protein-serine kinase 2	Pan-specific	NK026-2	T	T	T	34	27	NP_001789	P24941	1	2	8	9	10								
CDK4	Cyclin-dependent protein-serine kinase 4	Pan-specific	NK027	T	T	T	34	26	NP_000066	P11802	1	3	2	1	2								
CDK5	Cyclin-dependent protein-serine kinase 5	Pan-specific	NK028	T	T	T	33	24	NP_004926	Q00535	1	3	2	3	4								
CDK6	Cyclin-dependent protein-serine kinase 6	Pan-specific	NK029	T	T	T	37	33	NP_001250	Q00534	1	3	2	5	6								
CDK7	Cyclin-dependent protein-serine kinase 7	Pan-specific	NK030-1	T	T	T	39	36	NP_001790	P50613	1	3	2	7	8								
CDK7	Cyclin-dependent protein-serine kinase 7	Pan-specific	NK030-2	T	T	T	39	36	NP_001790	P50613	1	3	2	9	10								
CDK8	Cyclin-dependent protein-serine kinase 8	Pan-specific	NK031	T	T	T	53		NP_001251	P49336	1	3	3	1	2								
CDK9	Cyclin-dependent protein-serine kinase 9	Pan-specific	NK032-1	T	T	T	43	34	NP_001252	P49336	1	3	3	3	4								
CDK9	Cyclin-dependent protein-serine kinase 9	Pan-specific	NK032-2	T	T	T	43	34	NP_001252	P50750	1	3	3	5	6								
Chk1	Checkpoint protein-serine kinase 1	Pan-specific	NK034	T	T	F	54	48	NP_001265	Q14757	1	3	3	9	10								
Chk2	Checkpoint protein-serine kinase 2	Pan-specific	NK035	T	T	T	61	60	NP_009125	O96017	1	3	4	1	2								
c-IAP1	Cellular inhibitor of apoptosis protein 1 (baculoviral IAP repeat-containing protein)	Pan-specific	NN025	T	T	T	68		NP_001156	Q13490	1	3	4	3	4								
CK1δ	Casein protein-serine kinase 1 delta	Pan-specific	NK036	T	T	T	47	39	NP_001884	P48730	1	3	4	5	6								
CK1ε	Casein protein-serine kinase 1 epsilon	Pan-specific	NK037	T	T	T	47	39	NP_001885	P49674	1	3	4	7	8								
CK1γ2	Casein protein-serine kinase 1 gamma 2	Pan-specific	NK040	T	T	T	47	44	NP_001310	P78368	1	3	4	9	10								
CK2α	Casein protein-serine kinase 2 alpha/alpha prime	Pan-specific	NK041	T	T	T	45 + 41	34+38.5	NP_001887	P68400	1	3	5	1	2								
Cofilin	Cofilin 1	Pan-specific	NN026	T	T	T	19			P23528	4	4	4	7	8								
COT	Osaka thyroid oncogene protein-serine kinase (Tol2)	Pan-specific	NK042	T	T	T	53	54	NP_005195	P41279	1	3	5	9	10								
COX2	Cyclo-oxygenase 2 (prostaglandin G/H synthase 2 precursor)	Pan-specific	NN027	T	T	T	69	69	NP_000954	P35354	1	3	6	1	2								
CPG16/CaMKKinase VI	Serine/threonine-protein kinase DCAMKL1	Pan-specific	NK043	T			82		NP_004725	Q15075	4	4	6	1	2								
Csk	C-terminus of Src tyrosine kinase	Pan-specific	NK044	T	T	T	51	44	NP_004374	P41240	1	3	7	1	2								
Cyclin A	Cyclin A1	Pan-specific	NN028	T	T	T	52	48+52	NP_003905	P78396	1	3	7	3	4								
Cyclin B1	Cyclin B1	Pan-specific	NN029	T	T	F	48	58	NP_114172	P14635	1	3	7	5	6								
Cyclin D1	Cyclin D1 (PRAD1)	Pan-specific	NN030	T	T	F	34	30	NP_444284	P24385	1	3	7	7	8								
Cyclin E	Cyclin E1	Pan-specific	NN031	T	F	F	47	46	NP_001229	P24864	1	3	7	9	10								
Cyclin G1	Cyclin G1	Pan-specific	NN032	T	T	T	34	29	NP_004051	P51959	1	3	8	1	2								
CytoC	Cytochrome C	Pan-specific	NN033	T	T	T	12	11	NP_061820	P99999	1	3	8	3	4								
DAPK1	Death-associated protein kinase 1	Pan-specific	NK045	T	T	T	160	158	NP_004929	P53355	1	3	8	7	8								
DAPK2	Death-associated protein kinase 2	Pan-specific	NK046	T	T		43	38	NP_055141	Q9UIK4	1	3	8	9	10								
DAXX	Death-associated protein 6 (BING2)	Pan-specific	NN034	T	T	T	81	137	NP_001341	Q9UER7	1	4	1	1	2								
DCAMKL1	Doublecortin and calmodulin-dependent kinase-like 1 (candidate plasticity gene 16)	Pan-specific	NK047	T	T	T	82		n/a	Q15075													
DFF45	DNA fragmentation factor alpha (ICAD)	Pan-specific	NN035	T	T	F	37	32+40.5	NP_004392	Q00273	1	4	1	3	4								
DGKζ	Diacylglycerol kinase zeta	Pan-specific	NN036	T	T	T	124	119	NP_963290	Q13574	1	4	1	5	6								
DNAPK	DNA-activated protein-serine kinase	Pan-specific	NK048	T	T	T	469	233	NP_008835	P78527	1	4	1	7	8								
Dok1	Docking protein 1	Pan-specific	NN037	T			62			Q99704	4	4	4	9	10								
DRAK1	DAP kinase-related apoptosis-inducing protein-serine kinase 1 (STK17A)	Pan-specific	NK049	T	T		47	49	NP_004751	Q9UEE5	1	4	2	1	2								
DRAK2	DAP kinase-related apoptosis-inducing protein-serine kinase 2 (STK17B)	Pan-specific	NK050	T	T	T	42	40	NP_004217	Q94768	1	4	2	3	4								
eEF2K	Elongation factor-2 protein-serine kinase	Pan-specific	NK051	T	T	T	82	103	NP_037434	Q00418	1	4	2	5	6								
EGFR	Epidermal growth factor receptor-tyrosine kinase	Pan-specific	NK052-1	T	T	T	134	171	NP_005219	P00533	1	4	2	7	8								

Target Protein	Target Protein Full Name	Ab Type	I.D. Code	Ab Reactivity			Actual Mol.	Obsv. Mol.	Link - Protein	Link - Swiss-	Meta Row	Meta Col-	Row	Col-umn 1	Col-umn 2									
				Human												Human	Human	Human	Human	Human	Human	Microarray	Spot	Coordinates
				Human	Mouse	Rat																		
EGFR	Epidermal growth factor receptor-tyrosine kinase	Pan-specific	NK052-2	T	T	T	134	171	NP_005219	P00533	1	4	2	9	10									
eIF2 α	Eukaryotic translation initiation factor 2 α	Pan-specific	NN038	T	T	T	36	33	NP_004085	P05198	1	4	3	5	6									
eIF4E	Eukaryotic translation initiation factor 4 (mRNA cap binding protein)	Pan-specific	NN039	T			25			P06730	4	4	5	1	2									
EphA1	Ephrin type-A receptor 1 protein-tyrosine kinase	Pan-specific	NK053	T	T	T	108	106	.NP_005223	P21709	1	4	5	1	2									
ErbB2 [HER2]	ErbB2 (Neu) receptor-tyrosine kinase	Pan-specific	NK054	T	T	T	138	182	NP_004439	P04626	1	4	5	3	4									
Erk1	Extracellular regulated protein-serine kinase 1 (p44 MAP kinase)	Pan-specific	NK055	T	T	T	43	42	AAA36142.1	P27361	1	4	6	3	4									
Erk2	Extracellular regulated protein-serine kinase 2 (p42 MAP kinase)	Pan-specific	NK056	T	T	T	41	39	NP_002736	P28482	1	4	6	3	4									
Erk2	Extracellular regulated protein-serine kinase 2 (p42 MAP kinase)	Pan-specific	NK056	T	T	T	41	39	NP_002736	P28482	1	4	7	1	2									
Erk3	Extracellular regulated protein-serine kinase 3	Pan-specific	NK057	T	T	T	83	50+53.5	NP_002739	P16659	1	4	7	3	4									
Erk4	Extracellular regulated protein-serine kinase 4	Pan-specific	NK058	T	T		89	63	NP_002738	Q13164	1	4	7	5	6									
Erk6 [p38 γ]	Mitogen-activated protein-serine kinase p38 gamma (MAPK12)	Pan-specific	NK059-1	T	T	T	42	46	NP_002960	P53778	1	4	7	9	10									
Erk6 [p38 γ]	Mitogen-activated protein-serine kinase p38 gamma (MAPK12)	Pan-specific	NK059-2	T	T	T	42	46	NP_002960	P53778	3	2	1	9	10									
ERP57	ER protein 57 kDa (protein disulfide isomerase-associated 3: 58 kDa glucose)	Pan-specific	NN040	T	F	F	57	49	NP_005304	P30101	1	4	8	1	2									
ERP72	ER protein 72 kDa (protein disulfide isomerase-associated 4)	Pan-specific	NN041	T	T	T	73	76	NP_004902	P13667	1	4	8	3	4									
FAK	Focal adhesion protein-tyrosine kinase	Pan-specific	NK060	T	T	T	119	116	NP_005598	Q05397	1	4	8	5	6									
FAS	Tumor necrosis factor superfamily member 6 (Apo1, CD95)	Pan-specific	NN042	T	T	T	38	45	NP_003789	P25445	2	1	2	7	8									
FasL	Tumor necrosis factor ligand, member 6	Pan-specific	NN043	T	T	T	31	31	NP_006300	P48023	2	1	2	9	10									
Fes	Fes/Fps protein-tyrosine kinase	Pan-specific	NK061	T	T	T	93	96	NP_001996	P07332	2	1	3	1	2									
FGFR1	Fibroblast growth factor receptor-tyrosine kinase 1	Pan-specific	NK062	T	T	T	92	95	P11362	P11362	2	1	3	3	4									
FGFR2	Fibroblast growth factor receptor-tyrosine kinase 2 (BEG)	Pan-specific	NK063	T	T	T	92	94	P21802	P21802	2	1	3	5	6									
FLT4	Vascular endothelial growth factor receptor-protein-tyrosine kinase 3	Pan-specific	NK064	T	T	T	146	90	NP_002011	P35916	2	1	3	9	10									
Fos	Fos-c FBJ murine osteosarcoma oncprotein-related transcription factor	Pan-specific	NN044	T	T	T	41	43	NP_005243	P01100	2	1	4	1	2									
Fyn	Fyn proto-oncogene-encoded protein-tyrosine kinase	Pan-specific	NK065	T	T	T	61	48	NP_002028	P06241	2	1	4	5	6									
GCK	Germinal centre protein-serine kinase	Pan-specific	NK066	T	T	T	92	87	NP_004570	Q12851	2	1	4	9	10									
GNB2L1	Guanine nucleotide-binding protein beta (receptor for activated C kinase 1)	Pan-specific	NN045	T	T	T	35	26	NP_006089	P63244	2	1	5	5	6									
GRK2 [BARK1]	G protein-coupled receptor-serine kinase 2	Pan-specific	NK067	T	T	T	80	74	NP_001610	P25098	2	1	5	7	8									
GRK3 [BARK2]	G protein-coupled receptor-serine kinase 3	Pan-specific	NK068	T	T	T	80	92	NP_005151	P35626	2	1	6	1	2									
GroEL	GroEL homolog (may correspond to Hsp60)	Pan-specific	NN046	T	T	T	61	50	NP_002147	P10809	2	1	6	3	4									
Grp75	Glucose regulated protein 75	Pan-specific	NN047	T	T	T	74	68	NP_004125	P38646	2	1	6	5	6									
Grp78	Glucose regulated protein 78	Pan-specific	NN048	T	T	T	72	73	NP_005338	P11021	2	1	6	7	8									
Grp94	Glucose regulated protein 94 (endoplasmic)	Pan-specific	NN049	T	T	T	92	95	NP_003290	P14625	2	1	6	9	10									
GSK3 α	Glycogen synthase-serine kinase 3 alpha	Pan-specific	NK069	T	T	T	51	45	NP_063937	P49840	2	1	7	1	2									
GSK3 β	Glycogen synthase-serine kinase 3 beta	Pan-specific	NK070	T	T	T	47	40	NP_002084	P49841	2	1	7	1	2									
Haspin	Haploid germ cell-specific nuclear protein-serine kinase	Pan-specific	NK071	T	T	T	88		NP_114171	Q8TF76	2	1	7	9	10									
hHR23B	UV excision repair protein RAD23 homolog B	Pan-specific	NN050	T	T	F	43	60	NP_002865	P54727	2	1	8	1	2									
Hip	Hsp70/Hsc70 interacting protein (ST13)	Pan-specific	NN051	T	T	T	41	46	NP_003923	P50502	2	1	8	3	4									
HO1	Heme oxygenase 1	Pan-specific	NN052	T	T	T	33	24+31.5	NP_002124	P09601	2	2	1	9	10									
HO2	Heme oxygenase 2	Pan-specific	NN053	T	T	T	36	31	NP_002125	P30519	2	2	2	1	2									
Hpk1	Hematopoietic progenitor protein-serine kinase 1	Pan-specific	NK072	T	T	T	91	91	NP_009112	Q92918	2	2	2	3	4									
Hsc70	Heat shock 70 kDa protein 8	Pan-specific	NN054	T	T	T	71	64	NP_006588	P11142	2	2	2	5	6									
HSF4	Heat shock transcription factor 4	Pan-specific	NN055	T	T	F	53	44	NP_001529	Q9ULV5	2	2	2	7	8									
Hsp105	Heat shock 105 kDa protein	Pan-specific	NN062	T	T	T	97	116	NP_006635	Q92598	2	2	5	5	6									
Hsp25	Heat shock 27 kDa protein beta 1 (HspB1)	Pan-specific	NN056	T	T	T	23	22	NP_001531	P04792	2	2	2	9	10									
Hsp40	DnaJ homolog, subfamily B member 1	Pan-specific	NN057	T	T	T	38	34	NP_006136	P25685	2	2	4	3	4									
Hsp47	Heat shock 47 kDa protein (collagen-binding protein 1, collin 1)	Pan-specific	NN058	T	T	T	46	41	NP_001226	P29043	2	2	4	5	6									
Hsp60	Heat shock 60 kDa protein 1 (chaperonin, CPN60)	Pan-specific	NN059-1	T	T	T	61	50	NP_002147	P10809	2	2	4	7	8									
Hsp60	Heat shock 60 kDa protein 1 (chaperonin, CPN60)	Pan-specific	NN059-2	T	T	T	61	50	NP_002147	P10809	2	2	4	9	10									
Hsp70	Heat shock 70 kDa protein 1	Pan-specific	NN060	T	T	T	70	61	NP_005336	P08107	2	2	5	1	2									
Hsp90	Heat shock 90 kDa protein alpha	Pan-specific	NN061	T	T	T	85	84	NP_005339	P07900	2	2	5	3	4									
HspBP1	Hsp70 binding protein 1	Pan-specific	NN063	F	F	T	39		NP_036399	Q95351	2	2	5	7	8									
ICK	Intestinal cell protein-serine kinase (MAK-related kinase (MRK))	Pan-specific	NK073	T	T	T	71	92	NP_057597	Q9UP29	2	2	6	3	4									
IGF1R	Insulin-like growth factor receptor protein-tyrosine kinase	Pan-specific	NK074	T	T	T	155	166	NP_000866	P08069	2	2	6	5	6									
I κ B α	Inhibitor of NF- κ B alpha (MAD3)	Pan-specific	NN064	T	T	T	36	36	NP_065390	P25963	2	2	6	7	8									
I κ B β	Inhibitor of NF- κ B beta (thyroid receptor interacting protein 9)	Pan-specific	NN065	T	T	T	38	45	NP_002494	Q15653	2	2	6	9	10									



Target Protein	Target Protein Full Name	Ab Type	I.D. Code	Ab Reactivity			Actual Mol.	Obsv. Mol.	Link - Protein	Link - Swiss-	Meta Row	Meta Col-	Row	Col-umn 1	Col-umn 2								
				Human												Human	Human	Human	Human	Human	Microarray	Spot	Coordinates
				Human	Mouse	Rat																	
IKKα	Inhibitor of NF-kappa-B protein-serine kinase alpha (CHUK)	Pan-specific	NK075-1	T	T	T	85	81	NP_001269	O15111	2	2	7	1	2								
IKKα	Inhibitor of NF-kappa-B protein-serine kinase alpha (CHUK)	Pan-specific	NK075-2	T	T	T	85	81	NP_001269	O15111	2	2	7	3	4								
IKKα	Inhibitor of NF-kappa-B protein-serine kinase alpha (CHUK)	Pan-specific	NK075-3	T	T	T	85	81	NP_001269	O15111	2	2	7	5	6								
IKKβ	Inhibitor of NF-kappa-B protein-serine kinase beta	Pan-specific	NK076-1	T	T	T	87	87	NP_001547	O14920	2	2	7	9	10								
IKKβ	Inhibitor of NF-kappa-B protein-serine kinase beta	Pan-specific	NK076-2	T	T	T	87	87	NP_001547	O14920	2	2	8	1	2								
IKKγ/NEMO	I-kappa-B kinase gamma/NF-kappa-B essential modulator(NEMO)	Pan-specific	NK077	T			48			Q9Y6K9	4	4	6	3	4								
ILK1	Integrin-linked protein-serine kinase 1	Pan-specific	NK078-1	T	T	T	51	44	NP_034692	Q13418	2	2	8	3	4								
ILK1	Integrin-linked protein-serine kinase 1	Pan-specific	NK078-2	T	T	T	51	44	NP_034692	Q13418	2	2	8	5	6								
Insulin Rec	Insulin receptor beta chain	Pan-specific	NK079	T			95		NP_000199	P06213	4	4	6	5	6								
IRAK1	Interleukin 1 receptor-associated kinase 1 (Pelle-like protein kinase)	Pan-specific	NK080	T	T	T	77	77	NP_001560	P51617	2	3	1	7	8								
IRAK2	Interleukin 1 receptor-associated kinase 2	Pan-specific	NK081	T	T	T	65	77	NP_001561	Q43187	2	3	1	9	10								
IRAK3	Interleukin 1 receptor-associated kinase 3	Pan-specific	NK082	T	T	T	68	57	NP_009130	Q9Y616	2	3	2	1	2								
IRAK4	Interleukin 1 receptor-associated kinase 4	Pan-specific	NK083-1	T	T	T	52	50	NP_057207	Q9NWX3	2	3	2	3	4								
IRAK4	Interleukin 1 receptor-associated kinase 4	Pan-specific	NK083-2	T	T	T	52	50	NP_057207	Q9NWX3	2	3	2	5	6								
JAK1	Janus protein-tyrosine kinase 1	Pan-specific	NK084-1	T	T	T	132	116	NP_002218	P23458	2	3	3	1	2								
JAK1	Janus protein-tyrosine kinase 1	Pan-specific	NK084-2	T	T	T	132	116	NP_002218	P23458	2	3	3	3	4								
JAK2	Janus protein-tyrosine kinase 2	Pan-specific	NK085	T	T	T	131	110	NP_004963	O60674	2	3	3	5	6								
JAK3	Janus protein-tyrosine kinase 3	Pan-specific	NK086	T	T	T	125	103	NP_000206	P52333	2	3	3	9	10								
JIK [TAO3]	STE20-like protein-serine kinase	Pan-specific	NK087	T	T	T	106	97	NP_057365	Q9UHG7	2	3	4	1	2								
JNK	Jun N-terminus protein-serine kinases (stress-activated protein kinase (SAPK))	Pan-specific	NK088	T	T	T	44+48+53	39+44	NP_002744	P45983	2	3	4	3	4								
JNK2	Jun N-terminus protein-serine kinases (stress-activated protein kinase (SAPK)) 2	Pan-specific	NK189	T	T	T	44+48+53	39+44	NP_002744	P45984	2	3	5	1	2								
Jun	c-Jun AP1 transcription factor	Pan-specific	NN066	T			39			P05412	4	4	5	3	4								
KAP	Cyclin-dependent kinase associated phosphatase (CDK inhibitor 3, CIP2)	Pan-specific	NP004	T	T	T	24	33	NP_005183	Q16667	2	3	6	1	2								
KHS	Kinase homologous to SPS1/STE20 (MAP kinase kinase kinase protein-serine)	Pan-specific	NK089	T	T	T	95	101	NP_006566	Q9Y4K4	2	3	6	3	4								
Ksr1	Protein-serine kinase suppressor of Ras 1	Pan-specific	NK090	T	T	T	72	92	AAC50354.1	Q8IVT5	2	3	7	3	4								
LAR	LCA antigen-related (LAR) receptor tyrosine phosphatase	Pan-specific	NP005	T	T	T	212	147	NP_002831	P10586	2	3	7	5	6								
LATS1	Large tumor suppressor 1 protein-serine kinase (WARTS)	Pan-specific	NK091	T	T	T	127	109	NP_004681	O95835	2	3	7	7	8								
Lck	Lymphocyte-specific protein-tyrosine kinase	Pan-specific	NK092-1	T	T	T	58	45	NP_005347	P06239	2	3	7	9	10								
Lck	Lymphocyte-specific protein-tyrosine kinase	Pan-specific	NK092-2	T	T	T	58	45	NP_005347	P06239	2	3	8	1	2								
LIMK1	LIM domain kinase 1	Pan-specific	NK093	T			73		NP_002305	P53667	4	4	6	7	8								
LOK	Lymphocyte-oriented protein-serine kinase	Pan-specific	NK094	T	T		112	120	NP_005981	Q94804	2	4	1	1	2								
Lyn	Yes-related protein-tyrosine kinase	Pan-specific	NK095	T	T	T	58	47	NP_002341	P07948	2	4	1	3	4								
MAK	Male germ cell-associated protein-serine kinase	Pan-specific	NK096	T	T	T	71	85	NP_005897	P20794	2	4	1	7	8								
MAPKAPK2	Mitogen-activated protein kinase-activated protein kinase 2	Pan-specific	NK097	T	T	T	46	43	NP_116584	P49137	2	4	2	3	4								
MARK	MAP/microtubule affinity-regulating protein-serine kinase 1	Pan-specific	NK098	T	T	T	89	108	NP_061120	Q9POL2	2	4	3	5	6								
Mcl1	Myeloid cell leukemia differentiation protein 1	Pan-specific	NN067	T	T	T	37	38	NP_068779	Q07820	2	4	3	7	8								
MEK1 [MAP2K1]	MAPK/ERK protein-serine kinase 1 (MKK1)	Pan-specific	NK099	T	T	T	43	40	NP_002746	Q02750	2	4	3	9	10								
MEK2 [MAP2K2]	MAPK/ERK protein-serine kinase 2 (MKK2)	Pan-specific	NK100-1	T	T	T	44	41	AAH00471.1	P36507	2	4	5	9	10								
MEK2 [MAP2K2]	MAPK/ERK protein-serine kinase 2 (MKK2)	Pan-specific	NK100-2	T	T	T	44	41	AAH00471.1	P36507	2	4	6	1	2								
MEK3 [MAP2K3]	MAP kinase protein-serine kinase 3 (MKK3)	Pan-specific	NK101	T	T	T	36	34	NP_659732	P46734	2	4	6	7	8								
MEK3b [MAP2K3]	MAP kinase protein-serine kinase 3 beta isoform (MKK3 beta)	Pan-specific	NK102	T	T	T	39		NP_659731	P46734	4	4	6	9	10								
MEK4 [MAP2K4]	MAP kinase protein-serine kinase 4 (MKK4)	Pan-specific	NK103	T	T	T	44	38	NP_003001	P45985	2	4	7	1	2								
MEK5 [MAP2K5]	MAPK/ERK protein-serine kinase 5 (MKK5)	Pan-specific	NK104	T	T	T	49	54	NP_660143	Q13163	2	4	7	5	6								
MEK6 [MAP2K6]	MAP kinase protein-serine kinase 6 (MKK6)	Pan-specific	NK105-1	T	T	T	37+31	32	NP_002749	P52564	2	4	7	7	8								
MEK6 [MAP2K6]	MAP kinase protein-serine kinase 6 (MKK6)	Pan-specific	NK105-2	T	T	T	37+31	32	NP_002749	P52564	2	4	7	9	10								
MEK7 [MAP2K7]	MAP kinase protein-serine kinase 7 (MKK7)	Pan-specific	NK106	T	T	T	47	40	NP_005034	O14733	2	4	8	1	2								
MEKK1 [MAP3K1]	MAPK/ERK kinase kinase 1	Pan-specific	NK107	T	T	T	164	98	XP_042066	Q13233	2	4	8	3	4								
MEKK2 [MAP3K2]	MAPK/ERK kinase kinase 2	Pan-specific	NK108	T	T	T	70	86	NP_006600	Q9Y2U5	2	4	8	5	6								
MEKK4 [MAP3K4]	MAPK/ERK kinase kinase 4	Pan-specific	NK109	T	T	T	182	214	NP_005913	Q9Y6R4	2	4	8	7	8								
Met	Hepatocyte growth factor (HGF) receptor-tyrosine kinase	Pan-specific	NK110	T	T	T	156	142	NP_000236	P08581	2	4	8	9	10								
MKP1	MAP kinase phosphatase 1 (CL100, VH1)	Pan-specific	NP006	T	T	T	39	38	NP_004408	P28562	3	1	1	5	6								
MKP2	MAP kinase phosphatase 2 (VH2)	Pan-specific	NP007	T	T	T	43	40	NP_001385	Q13115	3	1	1	7	8								
Mn SOD	Manganese superoxide dismutase (SOD2)	Pan-specific	NN068	T	T	T	25	19	NP_000627	P04179	3	1	2	1	2								
Mnk2	MAP kinase-interacting protein-serine kinase 2 (calmodulin-activated)	Pan-specific	NK111	T	F	F	47	53	NP_060042	Q9BHB9	3	1	2	5	6								



Target Protein	Target Protein Full Name	Ab Type	I.D. Code	Ab Reactivity			Actual Mol.	Obsv. Mol.	Link - Protein	Link - Swiss-	Meta Row	Meta Col-	Row	Col-umn 1	Col-umn 2								
				Human												Human	Human	Human	Human	Human	Microarray	Spot	Coordinates
				Human	Mouse	Rat																	
Mos	Moloney sarcoma oncogene-encoded protein-serine kinase	Pan-specific	NK112	T	T	T	38	33	NP_005363	P00540	3	1	2	7	8								
MSH2	DNA mismatch repair protein mutS homolog2. colon cancer. nonpovpovsis	Pan-specific	NN069	T	T	T	105	100	NP_000242	P43246	3	1	3	1	2								
MST1	Mammalian STE20-like protein-serine kinase 1 (KRS2)	Pan-specific	NK113	T	T	T	56	58	NP_006273	Q13043	2	3	7	1	2								
MST1	Mammalian STE20-like protein-serine kinase 1 (KRS2)	Pan-specific	NK113-1	T	T	T	56	58	NP_006273	Q13043	3	1	3	5	6								
MST1	Mammalian STE20-like protein-serine kinase 1 (KRS2)	Pan-specific	NK113-2	T	T	T	56	58	NP_006273	Q13043	3	1	3	7	8								
MST2	Mammalian STE20-like protein-serine kinase 2 (KRS1)	Pan-specific	NK114	T	T	T	56	52	NP_006272	Q13188	3	1	3	9	10								
MST3	Mammalian STE20-like protein-serine kinase 3	Pan-specific	NK115	T	T	T	49		NP_003567	Q9Y6E0	4	4	7	1	2								
mTOR [FRAP]	Mammalian target of rapamycin	Pan-specific	NK116	T	T	T	289	197	NP_004949	P42345	3	1	4	1	2								
Nek2	NIMA (never-in-mitosis)-related protein-serine kinase 2	Pan-specific	NK117-1	T	T	T	52	46+53	NP_002488	P51955	3	1	4	5	6								
Nek2	NIMA (never-in-mitosis)-related protein-serine kinase 2	Pan-specific	NK117-2	T	T	T	52	46+53	NP_002488	P51955	3	1	4	7	8								
Nek2	NIMA (never-in-mitosis)-related protein-serine kinase 2	Pan-specific	NK117-3	T	T	T	52	46+53	NP_002488	P51955	3	1	4	9	10								
Nek4	NIMA (never-in-mitosis)-related protein-serine kinase 4	Pan-specific	NK118	T	T	T	95	102	NP_003148	P51957	3	1	5	1	2								
Nek7	NIMA (never-in-mitosis)-related protein-serine kinase 7	Pan-specific	NK119	T	T	T	35	29	NP_598001	Q8TDX7	3	1	5	3	4								
NFkappaB p50	NF-kappa-B p50 nuclear transcription factor	Pan-specific	NN070	T	T	T	-48	121.5+ 46	NP_003989	P19838	3	1	5	5	6								
NFkappaB p65	NF-kappa-B p65 nuclear transcription factor	Pan-specific	NN071	T	T	T	-65	64	NP_003989	Q04206	3	1	5	7	8								
Nip1	Bcl2/adenovirus E1B 19kD-interacting protein 1	Pan-specific	NN072	T	T	T	31	24	NP_001196	Q12981	3	1	6	1	2								
NME6	Nucleotide diphosphate kinase 6 (nm23-H6)	Pan-specific	NN073	T	T	F	21	16	NP_005784	Q75414	3	1	6	5	6								
NME7	Nucleotide diphosphate kinase 7 (nm23-H7)	Pan-specific	NN074	T	T	T	42	45	NP_037462	Q9Y5B8	3	1	6	7	8								
NT5E	Ecto-5'-nucleotidase (CD73 antigen)	Pan-specific	NN075	T	T	T	63	67	NP_002517	P21589	3	1	7	1	2								
p107	Retinoblastoma (Rb) protein-related p107 (PRB1)	Pan-specific	NN083	T	T	T	128	107	P28749	P28749	3	1	7	3	4								
p16 INK4	p16 INK4a cyclin-dependent kinase inhibitor (MTS1)	Pan-specific	NN076	T	T	T	17	14	NP_478104	P42771	3	1	7	5	6								
p18 INK4c	p18 INK4c cyclin-dependent kinase inhibitor	Pan-specific	NN077	T	T	T	18	14	NP_523240	P42773	3	1	7	7	8								
p21 CDK1	cyclin-dependent kinase inhibitor 1 (MDA6)	Pan-specific	NN078	T	T	T	18	16	NP_000380	P38936	3	1	7	9	10								
p27 Kip1	p27 cyclin-dependent kinase inhibitor 1B	Pan-specific	NN080	T	T	T	22	25	NP_004055	P46527	3	1	8	1	2								
p35	CDK5 regulatory subunit 1, p35	Pan-specific	NN081	T	T	T	34	30	NP_003876	Q15078	3	1	8	5	6								
p38α MAPK	Mitogen-activated protein-serine kinase p38 alpha	Pan-specific	NK120	T	T	T	41	38	NP_001306	Q16539	2	4	1	9	10								
p38α MAPK	Mitogen-activated protein-serine kinase p38 alpha	Pan-specific	NK120	T	T	T	41	38	NP_001306	Q16539	2	4	2	1	2								
p38α MAPK	Mitogen-activated protein-serine kinase p38 alpha	Pan-specific	NK120-3	T	T	T	41	38	NP_001306	Q16539	3	1	8	7	8								
p38β MAPK	Mitogen-activated protein-serine kinase p38 delta (MAPK13)	Pan-specific	NK121	T	T	T	42	39	NP_002745	Q15264	3	2	1	7	8								
p53	Tumor suppressor protein p53 (antigenNY-CO-13)	Pan-specific	NN082	T	F	T	44	49	NP_000537	P04637	3	2	2	3	4								
PAC1	Dual specificity MAP kinase protein phosphatase	Pan-specific	NP008	F	T	F	34	40	NP_004409	Q05923	3	2	3	1	2								
PACSN1	Protein kinase C + casein kinase substrate in neurons protein 1	Pan-specific	NN084	T	T	T	51		NP_065855	Q9BY11	3	2	3	3	4								
PAK1	p21-activated serine kinase 1 (alpha)	Pan-specific	NK122	T	T	T	61	64	NP_002567	Q13153	3	2	3	5	6								
PAK3	p21-activated serine kinase 3 (beta)	Pan-specific	NK123	T	T	T	61	60	NP_002569	Q75914	3	2	3	9	10								
PAK5	p21-activated serine kinase 5 (Serine/threonine-protein kinase PAK 7)	Pan-specific	NK190	T	T	T	80	80	NP_817127.1	Q9P286	3	2	4	1	2								
PAK6	p21-activated serine kinase 6	Pan-specific	NK124	T	T	T	75	88	NP_064553	Q9NQ5	3	2	4	3	4								
PARP1	Poly [ADP-ribose] polymerase 1 (ADPRT)	Pan-specific	NN085-1	T	T	T	113	21+88+111.5	NP_001609	Q09874	3	2	4	5	6								
PARP1	Poly [ADP-ribose] polymerase 1 (ADPRT)	Pan-specific	NN085-2	T	T	T	113	21+88+111.5	NP_001609	Q09874	3	2	4	7	8								
Paxillin	Paxillin 1	Pan-specific	NN086	T			68			P49023	4	4	5	5	6								
PCK2	Phosphoenolpyruvate carboxykinase	Pan-specific	NN113	T	T	T	68	68	NP_004554.2	Q16822	3	2	5	7	8								
PCNA	Proliferating cell nuclear antigen	Pan-specific	NN087	T	T	T	29	33	NP_002583	P12004	3	2	5	9	10								
PCTK1 IPCTAIRE11	PCTAIRE-1 protein-serine kinase	Pan-specific	NK125	T	T	T	56	48	NP_148978	Q00536	3	2	6	1	2								
PDK1	3-phosphoinositide-dependent protein-serine kinase 1	Pan-specific	NK126	T	T	T	63	59	NP_002604	Q15530	3	2	7	1	2								
PERP	p53-induced protein PIGPC1	Pan-specific	NN088	T	T	T	21	30	NP_071404	Q9H230	3	2	7	9	10								
PI 3-kinase	Phosphatidylinositol 3-kinase regulatory subunit alpha	Pan-specific	NN089	T			85			P27986	4	4	7	5	6								
PI3K p110 delta	Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta isoform	Pan-specific	NK191	T	T	T	120	120	NP_005017.2	Q00329	3	2	8	3	4								
PI3KR4	Phosphoinositide-3-kinase, regulatory subunit 4	Pan-specific	NN114	T	T	T	150	150	NP_055417.1	Q99570	3	2	8	5	6								
PI4K2β	Phosphatidylinositol 4-kinase type 2 beta	Pan-specific	NN090	T	T	T	55	49	NP_060793	Q8TCG2	3	2	8	7	8								
PI4KCB	phosphatidylinositol 4-kinase, catalytic, beta polypeptide	Pan-specific	NK192	T	T	T	90	90	NP_002642.1	Q5VWC1	3	2	8	9	10								
PI5K2α	Phosphatidylinositol 4-phosphatase 5-kinase type 2 alpha	Pan-specific	NN091	T	T	T	46	44	CAH72211	P48426	3	3	1	1	2								
PKA Cα/β	cAMP-dependent protein-serine kinase catalytic subunit alpha/beta	Pan-specific	NK127-1	T	T	T	40/40	38	NP_002721	P17612	3	3	1	3	4								
PKA Cα/β	cAMP-dependent protein-serine kinase catalytic subunit alpha/beta	Pan-specific	NK127-2	T	T	T	40/40	38	NP_002721	P17612	3	3	1	5	6								
PKA R1a	cAMP-dependent protein kinase type I-alpha regulatory chain	Pan-specific	NN116	T	T	T	43	43	NP_002725.1	P10644	3	4	4	5	6								
PKA R2α	cAMP-dependent protein-serine kinase regulatory type 2 subunit alpha	Pan-specific	NK128	T	T	T	45	46	NP_004148	P13861	3	3	2	1	2								

Target Protein	Target Protein Full Name	Ab Type	I.D. Code	Ab Reactivity			Actual Mol.		Obsv. Mol.	Link - Protein	Link - Swiss-	Meta Row	Meta Col-	Row	Col-um n 1	Col-um n 2
				Human	Human	Mouse	Rat	Human	Human	Human	Human	Microarray	Spot	Coordinates		
PKB α [Akt1]	Protein-serine kinase B alpha (Akt1)	Pan-specific	NK129	T	T	T	56	58	NP_005154	P31749	3	3	2	7	8	
PKB β [Akt2]	Protein-serine kinase B beta (Akt2)	Pan-specific	NK130-1	T	T	T	56	56	NP_001617	P31751	3	3	3	9	10	
PKB β [Akt2]	Protein-serine kinase B beta (Akt2)	Pan-specific	NK130-2	T	T	T	56	56	NP_001617	P31751	3	3	4	1	2	
PKB γ [Akt3]	Protein-serine kinase B gamma (Akt3)	Pan-specific	NK131-1	T	T	T	56	57	NP_005456	Q9Y243	3	3	4	3	4	
PKB γ [Akt3]	Protein-serine kinase B gamma (Akt3)	Pan-specific	NK131-2	T	T	T	56	57	NP_005456	Q9Y243	3	3	4	5	6	
PKC α	Protein-serine kinase C alpha	Pan-specific	NK132	T	T	T	77	79	NP_002728	P17252	3	3	4	7	8	
PKC β 1	Protein-serine kinase C beta 1	Pan-specific	NK133	T	T	T	77	79	NP_002729	P05771	3	3	5	3	4	
PKC β 2	Protein-serine kinase C beta 2	Pan-specific	NK134	T	T	T	77	75	AAA60095	P05771-2	3	3	5	7	8	
PKC δ	Protein-serine kinase C delta	Pan-specific	NK135	T	T	T	77	72	NP_006245	Q05655	3	3	6	1	2	
PKC ϵ	Protein-serine kinase C epsilon	Pan-specific	NK136	T	T	T	84	93	NP_005391	Q02156	3	3	7	3	4	
PKC γ	Protein-serine kinase C gamma	Pan-specific	NK137	T	T	T	78	79	NP_002730.1	P05129	3	3	7	9	10	
PKC λ /i	Protein-serine kinase C lambda/iota	Pan-specific	NK138	T	T	T	67	60	NP_002731	P41743	3	4	1	3	4	
PKC-nu [PKN3]	Protein-serine kinase C nu	Pan-specific	NK139	T	T	T	100	84	NP_005804	Q94806	3	4	1	7	8	
PKC θ	Protein-serine kinase C theta	Pan-specific	NK140	T	T	T	82	75	NP_006248	Q04759	3	4	1	9	10	
PKC ζ	Protein-serine kinase C zeta	Pan-specific	NK141	T	T	T	68	79	NP_002735	Q05513	3	4	2	7	8	
PKD (PKC μ)	Protein-serine kinase C mu (Protein kinase D)	Pan-specific	NK142	T	T	T	102	113	NP_002733	Q15139	3	4	3	1	2	
PKG1	Protein-serine kinase G1 (cGMP-dependent protein kinase)	Pan-specific	NK143	T	T	T	76 + 79	69	NP_006249	Q13976	3	4	3	9	10	
PKM2	Pyruvate kinase, isozymes M1/M2	Pan-specific	NN115	T	T	T	58	58	NP_872270.1	P14618	3	4	4	1	2	
PKR1	Double stranded RNA dependent protein-serine kinase	Pan-specific	NK144	F	F	T	62	76+70	NP_002750	P19525	3	4	4	7	8	
PKR1	Double stranded RNA dependent protein-serine kinase	Pan-specific	NK144	F	F	T	62	76+70	NP_002750	P19525	4	1	3	1	2	
Plk1	Polo-like protein-serine kinase 1	Pan-specific	NK145	T	T	T	68	51	NP_005021	P53350	3	4	5	1	2	
Plk2	Polo-like protein kinase 2 (serum - inducible kinase (SNK))	Pan-specific	NK146	T	T	T	78	69	NP_006613	Q9NYY3	3	4	5	5	6	
Plk3	Polo-like protein kinase 3 (cytokine-inducible kinase (CNK))	Pan-specific	NK147	T	T	T	72	69	NP_004064	Q9H4B4	3	4	5	7	8	
PP1/C α	Protein-serine phosphatase 1 - catalytic subunit - alpha isoform	Pan-specific	NP009	T	T	T	38	34	NP_002699	P62136	3	4	5	9	10	
PP1/C β	Protein-serine phosphatase 1 - catalytic subunit - beta isoform	Pan-specific	NP010	T	T	T	37	34	NP_002700	P62140	3	4	6	3	4	
PP1/C γ	Protein-serine phosphatase 1 - catalytic subunit - gamma isoform	Pan-specific	NP011	T	T	T	37	33	NP_002701	P36873	3	4	6	5	6	
PP2A/A α / β	Protein-serine phosphatase 2A - A regulatory subunit - alpha and beta	Pan-specific	NP012	T	T	T	65	50	NP_002707	P30153	3	4	6	7	8	
PP2A/C α	Protein-serine phosphatase 2A - catalytic subunit alpha isoform	Pan-specific	NP013	T	T	T	36	33	NP_002706	P67775	3	4	6	9	10	
PP2A/C β	Protein-serine phosphatase 2A - catalytic subunit beta isoform	Pan-specific	NP014	T	T	T	36	31	NP_004147	P62714	3	4	6	9	10	
PP2B/A α	Protein-serine phosphatase 2B - catalytic subunit - alpha isoform	Pan-specific	NP015	T	T	T	59	55	NP_000935	Q08209	3	4	7	1	2	
PP2C α	Protein-serine phosphatase 2C - catalytic subunit - alpha isoform	Pan-specific	NP016	T	T	T	42	44	NP_066283	P35813	3	4	7	3	4	
PP2C δ	Protein-serine phosphatase 2C - catalytic subunit - delta isoform	Pan-specific	NP018	T	T	T	67	41.5+45.5	NP_110395	Q15297	3	4	7	5	6	
PP4/A'2	Protein-serine phosphatase 4 - regulatory subunit (PPX/A'2)	Pan-specific	NP019	T	T	T	107	116	NP_005125	Q8TF05	3	4	7	7	8	
PP4C	Protein-serine phosphatase X - catalytic subunit (PPX/C)	Pan-specific	NP020	T	T	T	35	33	NP_002711	P60510	3	4	7	9	10	
PP5C	Protein-serine phosphatase 5 - catalytic subunit (PPT)	Pan-specific	NP021	T	T	T	57	50	NP_006238	P53041	3	2	2	1	2	
PP5C	Protein-serine phosphatase 5 - catalytic subunit (PPT)	Pan-specific	NP021	T	T	T	57	50	NP_006238	P53041	3	4	8	1	2	
PP6C	Protein-serine phosphatase 6 - catalytic subunit (PPVC)	Pan-specific	NP022	T	T	T	35	28+30.5	NP_002712	Q00743	3	4	8	3	4	
PRK1 [PKN1]	Protein-serine kinase C-like 1 (PRK1)	Pan-specific	NK148	T	T	T	104	143	NP_002732	Q16512	3	4	4	3	4	
PRK2 [PKN2]	Protein kinase C-related protein-serine kinase 2	Pan-specific	NK149	T	T	T	112	150	NP_006247	Q16513	3	4	8	9	10	
PRKAB1	5'-AMP-activated protein kinase (AMPK), beta-1 regulatory subunit	Pan-specific	NK150	T	T	T	30	22	NP_006244	Q9Y478	4	1	1	1	2	
PRKWINK4	Putative protein-serine kinase WNK4	Pan-specific	NK151	T	T	T	135		NP_115763	Q96J92	4	1	1	3	4	
PRP4K	Protein-serine kinase PRP4 homolog	Pan-specific	NK152	T	T	T	117	120	NP_003904	Q13523	4	1	1	7	8	
PTEN	Phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase and protein phosphatase	Pan-specific	NP023	T	T	T	47	54	NP_000305	P60484	4	1	1	9	10	
PTP1B	Protein-tyrosine phosphatase 1B	Pan-specific	NP024	T	T	T	50	44	NP_002818	P18031	4	1	2	5	6	
PTP1C	Protein-tyrosine phosphatase 1C (SHP1, SHPTP1)	Pan-specific	NP025	T	T	T	68	56	NP_002822	P29350	4	1	2	7	8	
PTP1D	Protein-tyrosine phosphatase 1D (SHP2, SHPTP2, Svp, PTP2C)	Pan-specific	NP026	T	T	T	68	67	NP_002825	Q06124	4	1	2	9	10	
PTP-PEST	Protein-tyrosine phosphatase with PEST sequences (PTPG1, PTPN12)	Pan-specific	NP027	T	T	T	88	91	NP_002826	Q05209	4	1	3	3	4	
PyDK2 [PDHK2]	Pyruvate dehydrogenase kinase isoform 2	Pan-specific	NK153	T	T	T	46	43	NP_002602	Q15119	3	2	7	5	6	
PyDK2 [PDHK2]	Pyruvate dehydrogenase kinase isoform 2	Pan-specific	NK153	T	T	T	46	43	NP_002602	Q15119	4	1	3	5	6	
Pyk2	Protein-tyrosine kinase 2	Pan-specific	NK154	T	T	T	116	103	NP_004094	Q14289	4	1	3	7	8	
Rac1	Ras-related C3 botulinum toxin substrate 1	Pan-specific	NN092	T			21			P60953	4	4	7	7	8	
Raf1	Raf1 proto-oncogene-encoded protein-serine kinase	Pan-specific	NK155	T	T	T	73	68+75.5	NP_002871	P04049	4	1	4	5	6	
RafB [BRAF]	RafB proto-oncogene-encoded protein-serine kinase	Pan-specific	NK156	T	T	T	84	88	NP_004324	P15056	4	1	4	9	10	
Rb	Retinoblastoma-associated protein 1	Pan-specific	NN093	T	T	T	106	95	NP_000312	P06400	4	1	5	1	2	

Target Protein	Target Protein Full Name	Ab Type	I.D. Code	Ab Reactivity			Actual Mol.	Obsv. Mol.	Link - Protein	Link - Swiss-	Meta Row	Meta Col-	Row	Col-umn 1	Col-umn 2								
				Human												Human	Human	Human	Human	Human	Microarray	Spot	Coordinates
				Human	Mouse	Rat																	
RIP2/RICK	Receptor-interacting serine/threonine-protein kinase 2 (RIPK2)	Pan-specific	NK157	T			61		NP_003812	O43353	4	4	7	9	10								
RIPK1	Receptor-interacting protein-serine kinase 1	Pan-specific	NK158	T	T	T	76	90	NP_003795	Q13546	4	1	6	7	8								
ROKα [ROCK2]	RhoA protein-serine kinase alpha	Pan-specific	NK159	T	T	T	161	155	NP_004841	Q75116	4	1	7	1	2								
ROKβ [ROCK1]	RhoA protein-serine kinase beta	Pan-specific	NK160	T	T	T	158		NP_005397	Q13464	4	4	8	3	4								
RONα	Macrophage-stimulating protein receptor alpha chain	Pan-specific	NK161	T			152		NP_002438	Q04912	4	4	8	5	6								
ROR2	ROR2 neurotrophic receptor-tyrosine kinase	Pan-specific	NK162	T	T		105	109	NP_004551	Q01974	4	1	7	3	4								
ROS	Orosomucoid 1 receptor-tyrosine kinase	Pan-specific	NK163	T	T	T	264	220	NP_002935	P08922	4	1	7	5	6								
RPTPα	Protein-tyrosine phosphatase, receptor type, A	Pan-specific	NP028	T	T	T	91	129	NP_002827	P18433	4	1	7	7	8								
RPTPβ	Protein-tyrosine phosphatase, receptor-type, Z polypeptide 1	Pan-specific	NP029	T	T	T	224		NP_002842	P23467	4	1	7	9	10								
RSK1	Ribosomal S6 protein-serine kinase 1	Pan-specific	NK164	T	T	T	83	79	NP_002944	Q15418	4	1	8	1	2								
RSK2	Ribosomal S6 protein-serine kinase 2	Pan-specific	NK165	T	T	T	84	74	NP_004577	P51812	4	1	8	3	4								
RSK4	Ribosomal S6 protein-serine kinase 4 (alpha 6)	Pan-specific	NK166	T	T	T	84	89	NP_055311	Q9UK32	4	2	1	7	8								
RYK	RYK tyrosine-protein kinase	Pan-specific	NK167	T	T	T	68	61	P34925	P34925	4	2	1	9	10								
S6Kα [p70 S6Kα]	p70 ribosomal protein-serine S6 kinase alpha	Pan-specific	NK168	T	T	T	56	58	NP_003152	P23443	4	2	2	3	4								
S6Kβ [p70 S6Kβ]	p70 ribosomal protein-serine S6 kinase beta	Pan-specific	NK169	T	T	T	53	58	NP_003943	Q9UBS0	4	2	3	3	4								
SGK3	Serum/glucocorticoid regulated kinase 3	Pan-specific	NK170	T	T	T	49	64		Q96BR1	4	2	3	5	6								
SIRPα1	Signal regulatory protein substrate of PTP1D phosphatase (SHPs1)	Pan-specific	NN094	F	T	T	55	80	NP_004639	P78324	4	2	4	1	2								
SLK	STE20-like protein-serine kinase	Pan-specific	NK171	T	T	T	143	137	NP_055535	Q9H2G2	4	2	4	3	4								
Smac/DIABLO	Second mitochondria-derived activator of caspase	Pan-specific	NN095	T	T	T	27	19	NP_620308	Q9NR28	4	2	4	5	6								
Smad2/3	SMA- and mothers against decapentaplegic homolog 2/3	Pan-specific	NN096	T			58			Q15796	4	4	5	7	8								
SOCS4	Suppressor of cytokine signalling 4 (SOCS7)	Pan-specific	NN097	T	T	T	51	54	NP_543143	Q8WXH5	4	2	5	1	2								
SOD (Cu/Zn)	Superoxide dismutase 1	Pan-specific	NN098	T	T	T	16	16	NP_000445	Q6ND84	4	2	5	3	4								
SODD	Silencer of death domains (Bcl2 associated athanogene 4 (BAG4))	Pan-specific	NN099	T	T	T	50	75	NP_004865	Q95429	4	2	5	5	6								
SPHK1	Sphingosine kinase 1	Pan-specific	NN100	T	T	T	43	43	NP_892010	Q9NYA1	4	2	5	9	10								
SPHK2	Sphingosine kinase 2	Pan-specific	NN101	T	T	T	69	55	NP_064511	Q9NRA0	4	2	6	1	2								
Src	Src proto-oncogene-encoded protein-tyrosine kinase	Pan-specific	NK172	T	T	T	60	48	NP_005408	P12931	4	2	6	3	4								
STAT1	Signal transducer and activator of transcription 1	Pan-specific	NN102	T	T	T	87	88	NP_009330	P42224	4	2	6	9	10								
STAT2	Signal transducer and activator of transcription 2	Pan-specific	NN103	T	T	T	98	111	NP_005410	P52630	4	2	7	7	8								
STAT3	Signal transducer and activator of transcription 3 (acute phase response)	Pan-specific	NN104	T	T	T	88	81	NP_003141	P40763	4	2	8	1	2								
STAT4	Signal transducer and activator of transcription 4 (acute phase response)	Pan-specific	NN117	T	T	T	86	86	NP_003142.1	Q14765	4	2	8	5	6								
STAT5A	Signal transducer and activator of transcription 5A	Pan-specific	NN105	T	T	T	91	99	NP_003143	P42229	4	2	8	7	8								
STAT5B	Signal transducer and activator of transcription 5B	Pan-specific	NN106	T	T	T	90	86	NP_036580	P51692	4	3	1	1	2								
STAT6	Signal transducer and activator of transcription 6	Pan-specific	NN107	T	T	T	94	85	NP_003144	P42226	4	3	1	3	4								
STI1	Stress induced phosphoprotein 1 (Hsc70/Hsc90 organzina protein (Hoo))	Pan-specific	NN108	T	T	T	63	59	NP_006810	P31948	4	3	1	5	6								
STK33	FLJ35932 protein-serine kinase	Pan-specific	NK173	T	T	T	58	49	NP_112168	Q8NEF5	4	3	1	7	8								
Syk	Spleen protein-tyrosine kinase	Pan-specific	NK174	T	T	T	72	71	NP_003168	P43405	4	3	1	9	10								
TAK1	TGF-beta-activated protein-serine kinase 1	Pan-specific	NK175-1	T	T	T	67	69	NP_663306	O43318	4	3	2	5	6								
TAK1	TGF-beta-activated protein-serine kinase 1	Pan-specific	NK175-2	T	T	T	67	69	NP_663306	O43318	4	3	2	7	8								
TBK1	Tank-binding protein 1	Pan-specific	NN109-1	T	T	T	84	80	NP_037386	Q9UHD2	4	3	4	9	10								
TBK1	Tank-binding protein 1	Pan-specific	NN109-2	T	T	T	84	80	NP_037386	Q9UHD2	4	3	5	1	2								
TEK [TIE2]	Angiopoietin-1 receptor-tyrosine kinase	Pan-specific	NK176	T	T	T	126	147	NP_444515	Q02763	4	3	5	3	4								
Tik1	Tousled-like protein-serine kinase 1	Pan-specific	NK177-1	T	T	T	89	82	NP_036422	Q9UKI8	4	3	5	5	6								
Tik1	Tousled-like protein-serine kinase 1	Pan-specific	NK177-2	T	T	T	89	82	NP_036422	Q9UKI8	4	3	5	7	8								
TRADD	Tumor necrosis factor receptor type 1 associated DEATH domain protein	Pan-specific	NN110	T	T	F	34	40	NP_003789	Q15628	4	3	5	9	10								
Trail	Tumor necrosis factor-related apoptosis-inducina ligand	Pan-specific	NN111	T	T	T	33		NP_003801	P50591	4	3	6	1	2								
TrkA	Nerve growth factor (NGF) receptor-tyrosine kinase	Pan-specific	NK178	T	T	T	87 + 88	87	NP_002520	P04629	4	3	6	3	4								
TrkB	BDNF/NT3/4/5 receptor- tyrosine kinase	Pan-specific	NK179	T	T	T	92	93	NP_006171	Q16620	4	3	6	5	6								
TTK	Dual specificity protein kinase	Pan-specific	NK180	T	T	T	95	105	AAA61239.1	P33981	4	3	6	7	8								
Tyk2	Protein-tyrosine kinase 2 (Jak-related)	Pan-specific	NK181	T	T	T	134	144	NP_003322	P29597	4	3	6	9	10								
Tyro10 [DDR2]	Neurotrophic receptor-tyrosine kinase of discoidin domain receptor family, member	Pan-specific	NK183-1	T	T	T	97	111	NP_006173	Q16832	4	3	7	1	2								
Tyro10 [DDR2]	Neurotrophic receptor-tyrosine kinase of discoidin domain receptor family, member	Pan-specific	NK183-2	T	T	T	97	111	NP_006173	Q16832	4	3	7	3	4								
Tyro3	Tyrosine-protein kinase receptor TYRO3	Pan-specific	NK182	T			97		NP_006284	Q06418	4	4	8	7	8								
VHR	Dual specificity protein phosphatase 3	Pan-specific	NP030	T	F	T	20	18	NP_004081	P51452	4	3	8	3	4								
Vrk1	Vaccinia related protein-serine kinase 1	Pan-specific	NK184	T	T	T	45	45	NP_003375	Q99986	4	3	8	9	10								



Target Protein	Target Protein Full Name	Ab Type	I.D. Code	Ab Reactivity			Actual Mol.	Obsv. Mol.	Link - Protein	Link - Swiss-	Meta Row	Meta Col-	Row	Col-umn 1	Col-umn 2
				Human	Human	Mouse									
Wee1	Wee1 protein-tyrosine kinase	Pan-specific	NK185	T	T	T	72	72	NP_003381	P30291	4	4	1	1	2
XIAP	X-linked inhibitor of apoptosis protein (baculoviral IAP repeat-containing 4)	Pan-specific	NN112	T	T	T	57	48	NP_001158	P98170	4	4	1	3	4
Yes	Yamaguchi sarcoma proto-oncogene-encoded tyrosine kinase	Pan-specific	NK186	T	T	T	61	54	NP_005424	P07947	4	4	1	5	6
ZAP70	Zeta-chain (TCR) associated protein-tyrosine kinase, 70 kDa	Pan-specific	NK187	T	T	T	70	78	NP_003168	P43403	4	4	1	7	8
ZIPK	ZIP kinase (death associated protein-serine kinase 3 (DAPK3))	Pan-specific	NK188-1	T	T	T	53	46	NP_001339	O43293	4	4	2	5	6
ZIPK	ZIP kinase (death associated protein-serine kinase 3 (DAPK3))	Pan-specific	NK188-2	T	T	T	53	46	NP_001339	O43293	4	4	2	9	10

Target Protein	Target Protein Full Name	Phospho-site	Phospho-site	I.D. Code	Ab Reactivity			Actual Mol.	Obsv. Mol.	Link - Protein	Link - Swiss-	Meta Row	Meta Col-	Row	Col-umn 1	Col-umn 2
					Human	Mouse	Human									
4E-BP1	eukaryotic translation initiation factor 4E binding protein 1 (PHAS1)	S65	S64	PN001	T	T	T	13	17+19+23	NP_004086	Q13541	1	1	1	3	4
Abl	Abelson proto-oncogene-encoded protein-tyrosine kinase	Y412	Y412	PK001	T	T	T	123	165	NP_005148	P00519	1	1	1	7	8
AcCoA carboxylase	Acetyl coenzyme A carboxylase	S80	S79	PN002	T	T	T	265	199	NP_000655	Q13085	1	1	1	9	10
Adducin α	Adducin alpha (ADD1)	S726	S724	PN003	T	T	T	81	122	NP_058432	P35611	1	1	2	3	4
Adducin γ	Adducin gamma (ADD3)	S693	S693	PN004	T	T	T	79	79	NP_058432	P35611	1	1	2	3	4
AMPKα1/2	AMP-activated protein-serine kinase alpha 1/2	T174/T172	T315	PK002	T	T	T	63 / 62	59	NP_006242	Q13131	1	1	3	5	6
Arrestin β1	Arrestin beta 1	S412	none	PN005	T	T	T	47	45	NP_004032	P49407	1	1	4	3	4
ATF2	Activating transcription factor 2 (CRE-BP1)	T51+T53	T51+T53	PN006-1	T	T	T	52	54	NP_001871	P15336	1	1	4	7	8
ATF2	Activating transcription factor 2 (CRE-BP1)	T51+T53	T51+T53	PN006-2	T	T	T	52	54	NP_001871	P15336	1	1	4	9	10
ATM	Ataxia telangiectasia mutated	S1981	S1987	PK115	T	T	T	350	350	NP_000042.3	Q13315	1	1	5	1	2
B23 (NPM)	B23 (nucleophosmin, numatrin, nucleolar protein N038)	T199	T198	PN008	T	T	T	33	38	NP_002511	P06748	1	1	5	9	10
B23 (NPM)	B23 (nucleophosmin, numatrin, nucleolar protein N038)	T234+T237	T232	PN009	T	T	T	33	38	NP_002511	P06748	1	1	6	1	2
B23 (NPM)	B23 (nucleophosmin, numatrin, nucleolar protein N038)	S4	S4	PN007	T	T	T	33	34	NP_002511						
Bad	Bcl2-antagonist of cell death protein	S75	S112	PN010	T	T	T	18	19	NP_004313	Q92934	1	1	6	3	4
Bad	Bcl2-antagonist of cell death protein	S91	S128	PN011	T	T	T	18	19	NP_004313	Q92934	1	1	6	5	6
Bad	Bcl2-antagonist of cell death protein	S99	S136	PN012	T	T	T	18	31	NP_004313	Q92934	1	1	6	7	8
BLNK	B-cell linker protein	Y84	Y84	PN013	T	T	T	50	53+61	NP_037446	O75498	1	1	8	1	2
BMX (Etk)	Bone marrow X protein-tyrosine kinase	Y40	Y40	PK003	T	T	T	78	70	NP_001712	P51813	1	1	8	5	6
BRCA1	Breast cancer type 1 susceptibility protein	S1497	S1454	PN014	T	T	T	108	174	NP_009225	P38398	1	1	8	7	8
Btk	Bruton's agammaglobulinemia tyrosine kinase	Y223	Y223	PK004	T	T	T	76	71	NP_000052	Q06187	1	2	1	3	4
Caldesmon	Caldesmon	S789	S526	PN015	T	T	T	93	141 + 108	NP_004333	Q05682	1	2	1	7	8
CaMK2α	Calcium/calmodulin-dep. protein-serine kinase 2 alpha	T286	T286	PK005-1	T	T	T	54	45	NP_741960	Q9UQM7	1	2	2	5	6
CaMK2α	Calcium/calmodulin-dep. protein-serine kinase 2 alpha	T286	T286	PK005-2	T	T	T	54	45	NP_741960	Q9UQM7	1	2	2	7	8
Catenin β	Catenin (cadherin-associated protein) beta 1	S45	S45	PN016	T	T	T	85	84	NP_001895	P35222	1	2	6	9	10
Caveolin 2	Caveolin 2	S23	S23	PN017	T	T	T	18	18	NP_001224	P51636	1	2	7	1	2
Caveolin 2	Caveolin 2	S36	S36	PN018	T	T	T	18	18	NP_001224	P51636	1	2	7	3	4
CDK1/2	Cyclin-dependent protein-serine kinase 1/2	T14+Y15	T14+Y15	PK006	T	T	T	34	28	NP_001777	P06493	1	3	1	3	4
CDK1/2	Cyclin-dependent protein-serine kinase 1/2	T161/T160	T161/T160	PK008	T	T	T	34	27	NP_001777	P06493	1	3	1	5	6
CDK1/2	Cyclin-dependent protein-serine kinase 1/2	Y15	Y15	PK007-1	T	T	T	34	27	NP_001777	P06493	1	3	1	1	2
CDK1/2	Cyclin-dependent protein-serine kinase 1/2	Y15	Y15	PK007-2	T	T	T	34	27	NP_001777	P06493	1	3	1	7	8
CDK1/2	Cyclin-dependent protein-serine kinase 1/2	Y15	Y15	PK007-3	T	T	T	34	27	NP_001777	P06493	1	3	1	9	10
Cofilin 1	Cofilin 1	S3	S3	PN019	T	T	T	18	15	NP_005498	P23528	1	3	5	3	4
Cofilin 2	Cofilin 2	S3	S3	PN020	T	T	T	19	16	NP_068733	Q9Y281	1	3	5	5	6
Cortactin	Cortactin (amplixin) (mouse)	Y470	Y466	PN022	T	T	T	62	77+82	NP_031829	Q60598	1	3	5	7	8
CREB1	cAMP response element binding protein 1	S129+S133	S129+S133	PN023	T	T	T	37	36	NP_004370	P16220	1	3	6	3	4
CREB1	cAMP response element binding protein 1	S133	S133	PN024	T	T	T	37	44	NP_004370	P16220	1	3	6	5	6
Crystallin αB	Crystallin alpha B (heat-shock 20 kDa like-protein)	S19	S19	PN025	T	T	T	20	18	NP_001876	P02511	1	3	6	7	8
Crystallin αB	Crystallin alpha B (heat-shock 20 kDa like-protein)	S45	S45	PN025	T	T	T	20	18	NP_001876	P02511	1	3	6	9	10
Dab1	Disabled homolog 1	Y198	Y198	PN026	T	T	T	60	79	NP_068566	O75553	1	3	8	5	6
Dok2	Docking protein 2 (mouse)		Y142	PN027	T	T	T	46	46	NP_034201	O60496	1	4	1	9	10
EGFR	Epidermal growth factor receptor-tyrosine kinase	Y1068	Y1068	PK009	T	T	T	134	175	NP_005219	P00533	1	4	3	1	2
EGFR	Epidermal growth factor receptor-tyrosine kinase	Y1148	Y1148	PK010	T	T	T	134	174	NP_005219	P00533	1	4	3	3	4
EGFR	Epidermal growth factor receptor-tyrosine kinase	Y1173	Y1173	PK011	T	T	T	134	174	NP_005219						
eIF2α	Eukaryotic translation initiation factor 2 alpha	S51	S52	PN028	T	T	T	36	33	NP_004085	P05198	1	4	3	7	8

Target Protein	Target Protein Full Name	Phospho-site Human	Phospho-site Mouse	I.D. Code	Ab Reactivity			Actual Mol. Human	Obsv. Mol. Human	Link-Protein Human	Link-Swiss-Human	Meta Row	Meta Col-	Row	Col-umn 1	Col-umn 2
					Human	Mouse	Rat									
					Microarray Spot Coordinates											
eIF2 α	Eukaryotic translation initiation factor 2 alpha	S51	S52	PN028	T	T	T	36	33	NP_004085	P05198	1	4	3	9	10
eIF2 β	Eukaryotic translation initiation factor 2B epsilon	S540	S539	PN029	T	T	T	80	79	XP_291076	Q13144	1	4	4	1	2
eIF4E	Eukaryotic translation initiation factor 4 (mRNA cap binding protein)	S209	S209	PN030	T	T	T	25	24	NP_001959	P06730	1	4	4	3	4
eIF4E	Eukaryotic translation initiation factor 4 (mRNA cap binding protein)	S209	S209	PN030	T	T	T	25	24	NP_001959	P06730	1	4	4	5	6
eIF4G	Eukaryotic translation initiation factor 4 gamma 1	S1107	S1108	PN031	T	T	T	176	192	NP_004944	Q04637	1	4	4	7	8
eNos	Nitric-oxide synthase, endothelial	T494	T493	PN097	T	T	T	130	130	NP_000594.2	P29474	1	4	4	9	10
ErbB2	ErbB2 (Neu, HER2) receptor-tyrosine kinase	Y1139	Y1139	PK012-1	T	T	T	138	160	NP_004439	P04626	1	4	5	5	6
ErbB2	ErbB2 (Neu, HER2) receptor-tyrosine kinase	Y1139	Y1139	PK012-2	T	T	T	138	160	NP_004439	P04626	1	4	5	7	8
ErbB2	ErbB2 (Neu, HER2) receptor-tyrosine kinase	Y1248	Y1248	PK013-1	T	T	T	138	182	NP_004439	P04626	1	4	5	9	10
ErbB2	ErbB2 (Neu, HER2) receptor-tyrosine kinase	Y1248	Y1248	PK013-2	T	T	T	138	182	NP_004439	P04626	1	4	6	1	2
Erk1	Extracellular regulated protein-serine kinase 1 (p44 MAP kinase)	T202+Y204	T202+Y204	PK014-1	T	T	T	43	41	AAA36142.1	P27361	1	4	6	5	6
Erk1	Extracellular regulated protein-serine kinase 1 (p44 MAP kinase)	T202+Y204	T202+Y204	PK014-2	T	T	T	43	41	AAA36142.1	P27361	1	4	6	7	8
Erk1	Extracellular regulated protein-serine kinase 1 (p44 MAP kinase)	T202+Y204	T202+Y204	PK014-3	T	T	T	43	41	AAA36142.1	P27361	1	4	6	9	10
Erk2	Extracellular regulated protein-serine kinase 1 (p44 MAP kinase)	T202+Y204	T202+Y204	PK015-1	T	T	T	43	41	AAA36142.1	P27361	1	4	6	5	6
Erk2	Extracellular regulated protein-serine kinase 1 (p44 MAP kinase)	T202+Y204	T202+Y204	PK015-2	T	T	T	43	41	AAA36142.1	P27361	1	4	6	7	8
Erk2	Extracellular regulated protein-serine kinase 1 (p44 MAP kinase)	T202+Y204	T202+Y204	PK015-3	T	T	T	43	41	AAA36142.1	P27361	1	4	6	9	10
Erk5	Extracellular regulated protein-serine kinase 5 (Big MAP kinase 1 (BMK1))	T218+Y220	T218+Y220	PK016	T	T	T	89	130	NP_620602	P53778	1	4	7	7	8
FAK	Focal adhesion protein-tyrosine kinase	S722	S722	PK020	T	T	T	119	115	NP_005598	Q05397	1	4	8	7	8
FAK	Focal adhesion protein-tyrosine kinase	S732	S732	PK021	T	T	T	119	125	NP_005598	Q05397	1	4	8	9	10
FAK	Focal adhesion protein-tyrosine kinase	S843	S843	PK022	T	T	T	119	113	NP_005598	Q05397	2	1	1	1	2
FAK	Focal adhesion protein-tyrosine kinase	S910	S910	PK024	T	T	T	119	114	NP_005598	Q05397	2	1	1	3	4
FAK	Focal adhesion protein-tyrosine kinase	Y397	Y397	PK017-1	T	T	T	119	113	NP_005598	Q05397	2	1	1	5	6
FAK	Focal adhesion protein-tyrosine kinase	Y397	Y397	PK017-2	T	T	T	119	113	NP_005598	Q05397	2	1	1	7	8
FAK	Focal adhesion protein-tyrosine kinase	Y576	Y576	PK018-1	T	T	T	119	114	NP_005598	Q05397	2	1	1	9	10
FAK	Focal adhesion protein-tyrosine kinase	Y576	Y576	PK018-2	T	T	T	119	114	NP_005598	Q05397	2	1	2	1	2
FAK	Focal adhesion protein-tyrosine kinase	Y577	Y577	PK019	T	T	T	119	113	NP_005598	Q05397	2	1	2	3	4
FAK	Focal adhesion protein-tyrosine kinase	Y861	Y861	PK023	T	T	T	119	117	NP_005598	Q05397	2	1	2	5	6
FKHRL1	Forkhead-like transcription factor 1 (FOXO3A)	T32	T32	PN032	T	F	T	71	99	NP_001446	Q43524	2	1	3	7	8
Fos	Fos-c FBJ murine osteosarcoma oncoprotein-related transcription factor	T232	T232	PN033	T	T	T	41	57	NP_005243	P01100	2	1	4	3	4
GAP-43	Growth associated protein 43 (Neuromodulin)	S41	S41	PN098	T	T	T	25	25	NP_002036.1	P17677	2	1	4	7	8
GFAP	Glial fibrillary acidic protein	S8	S8	PN034	T	T	T	50	50	NP_002046	P14136	2	1	5	1	2
GRK2 [BARK1]	G protein-coupled receptor-serine kinase 2	S670	S670	PK025	T	T	T	80	77+65	NP_001610	P25098	2	1	5	9	10
GSK3 α	Glycogen synthase-serine kinase 3 alpha	S21	S21	PK026-1	T	T	T	51	45	NP_063937	P49840	2	1	7	3	4
GSK3 α	Glycogen synthase-serine kinase 3 alpha	Y279	Y279	PK026-2	T	T	T	51	45	NP_063937	P49840	2	1	7	5	6
GSK3 α	Glycogen synthase-serine kinase 3 alpha	Y279	Y279	PK026-3	T	T	T	51	45	NP_063937	P49840	2	1	7	7	8
GSK3 β	Glycogen synthase-serine kinase 3 beta	S9	S9	PK027-1	T	T	T	47	40	NP_002084	P49841	2	1	7	3	4
GSK3 β	Glycogen synthase-serine kinase 3 beta	Y216	Y216	PK027-2	T	T	T	47	40	NP_002084	P49841	2	1	7	5	6
GSK3 β	Glycogen synthase-serine kinase 3 beta	Y216	Y216	PK027-3	T	T	T	47	40	NP_002084	P49841	2	1	7	7	8
GYS1	Human muscle glycogen synthase	S641	S641	PN099	T	T	T	84	84	NP_002094.2	P13807	2	1	5	3	4
Histone H1	Histone H1 phosphorylated	CDK1 sites	CDK1 sites	PN035	T	T	T	22	30	NP_005316	Q02539	2	1	8	5	6
Histone H2A.X	Histone H2A variant X	S139	S139	PN036	T	T	T	15	14	NP_002096	P16104	2	1	8	7	8
Histone H2B	Histone H2B	S14	S14	PN037	T	T	T	14	14	NP_778225	P33778	2	1	8	9	10
Histone H3	Histone H3.3	S10	S10	PN038	T	T	T	15	14	NP_003521	P84243	2	2	1	5	6
Histone H3	Histone H3.3	S28	S28	PN039	T	T	T	15	14	NP_003521	P84243	2	2	1	7	8
Histone H3	Histone H3.3	T11	T11	PN100	T	T	T	15	14	NP_003521	P84243	2	2	1	3	4
Histone H3	Histone H3.3	T3	T3	PN101	T	T	T	15	14	NP_003521	P84243	2	2	1	1	2
Hsp25	Heat shock 27 kDa protein beta 1	S86	S86	PN102	T	T	T	23	23	NP_038588.1	P14602	2	2	3	1	2
Hsp27	Heat shock 27 kDa protein beta 1 (HspB1)	S15	S15	PN040	T	F	T	23	23	NP_001531	P04792	2	2	3	3	4
Hsp27	Heat shock 27 kDa protein beta 1 (HspB1)	S15	S15	PN040	T	F	T	23	23	NP_001531	P04792	2	2	3	5	6
Hsp27	Heat shock 27 kDa protein beta 1 (HspB1)	S78	S78	PN041	T	F	T	23	23	NP_001531	P04792	2	2	3	7	8
Hsp28	Heat shock 27 kDa protein beta 1 (HspB1)	S82	S82	PN042	T	T	T	23	22	NP_001531	P04792	2	2	3	9	10
Hsp29	Heat shock 27 kDa protein beta 1 (HspB1)	S82	S82	PN042	T	T	T	23	22	NP_001531	P04792	2	2	4	1	2
Huntington	Huntington's disease protein	S421	S398	PN103	T	T	T	350	350	NP_002102.4	P42858	2	2	6	1	2
IKK α	Inhibitor of NF-kappa-B protein-serine kinase alpha (CHUK)	S180	S180	PK030	T	T	T	85	80	NP_001269	Q15111	2	2	7	7	8

Target Protein	Target Protein Full Name	Phospho-site Human	Phospho-site Mouse	I.D. Code	Ab Reactivity			Actual Mol. Human	Obsv. Mol. Human	Link-Protein Human	Link-Swiss-Human	Meta Row	Meta Col-Microarray	Row Spot	Column 1 Coordinates	Column 2 Coordinates
					Human	Mouse	Rat									
IKKβ	Inhibitor of NF-kappa-B protein-serine kinase beta	S181	S181	PK030	T	T	T	87	90	NP_001547	O15111	2	2	7	7	8
Integrin α4	Integrin alpha 4 (VLA4)	S988	S988	PN043	T	T	T	115	154	NP_000876	P13612	2	2	8	7	8
Integrin β1	Integrin beta 1 (fibronectin receptor beta subunit, CD29 antigen)	S785	S785	PN044	T	T	T	88	146	NP_002202	P05556	2	2	8	9	10
Integrin β1	Integrin beta 1 (fibronectin receptor beta subunit, CD29 antigen)	Y783	Y783	PN105	T	T	T	88	146	NP_002202	P05556	2	3	1	1	2
IR [INSR]	Insulin receptor	Y999	Y972	PK032	T	T	T	156	83	NP_000199	P06213	2	3	1	3	4
IR/IGF1R [INSR]	Insulin receptor / Insulin-like growth factor 1 receptor	Y1189/ Y1190	Y1162/ Y1163	PK033	T	T	T	156/ 155	95	NP_000866	P06213	2	3	1	5	6
IRS1	Insulin receptor substrate 1	Y1179	Y1179	PN046	T	T	T	132	181	NP_005535	P35568	2	3	2	7	8
IRS1	Insulin receptor substrate 1	Y612	Y612	PN045	T	T	T	132	173	NP_005535	P35568	2	3	2	9	10
JAK2	Janus protein-tyrosine kinase 2	Y1007/ Y1008	Y1007/ Y1008	PK034	T	T	T	131	119	NP_004963	O06074	2	3	3	7	8
JNK	Jun N-terminus protein-serine kinase (stress-activated protein kinase (SAPK))	T183+Y185	T183+Y185	PK035-1	T	T	T	44 + 48 + 53	48+44+ 39+37	NP_002741	P45983	2	3	4	5	6
JNK	Jun N-terminus protein-serine kinase (stress-activated protein kinase (SAPK))	T183+Y185	T183+Y185	PK035-2	T	T	T	44 + 48 + 53	48+44+ 39+37	NP_002741	P45983	2	3	4	7	8
JNK	Jun N-terminus protein-serine kinase (stress-activated protein kinase (SAPK))	T183+Y185	T183+Y185	PK035-3	T	T	T	44 + 48 + 53	48+44+ 39+37	NP_002741	P45983	2	3	4	9	10
Jun	Jun proto-oncogene-encoded AP1 transcription factor	S63	S63	PN047	T	T	T	36	40+39+ 38	NP_002219	P05412	2	3	5	3	4
Jun	Jun proto-oncogene-encoded AP1 transcription factor	S73	S73	PN048-1	T	T	T	36	43+40+ 38	NP_002219	P05412	2	3	5	5	6
Jun	Jun proto-oncogene-encoded AP1 transcription factor	S73	S73	PN048-2	T	T	T	36	43+40+ 38	NP_002219	P05412	2	3	5	7	8
Jun	Jun proto-oncogene-encoded AP1 transcription factor	S73	S73	PN048-3	T	T	T	36	43+40+ 38	NP_002219	P05412	2	3	5	9	10
Kit	Kit/Steel factor receptor-tyrosine kinase	Y703	Y703	PK036	T	T	F	110	141	P10721	P10721	2	3	6	5	6
Kit	Kit/Steel factor receptor-tyrosine kinase	Y730	Y730	PK037	T	T	T	110	134 + 187	P10721	P10721	2	3	6	7	8
Kit	Kit/Steel factor receptor-tyrosine kinase	Y936	Y936	PK038	T	T	F	110	183	P10721	P10721	2	3	6	9	10
Lck	Lymphocyte-specific protein-tyrosine kinase	S157	S158	PK039	T	T	T	58	46 + 54	NP_005347	P06239	2	3	8	3	4
Lck	Lymphocyte-specific protein-tyrosine kinase	Y191	Y192	PK040	T	T	T	58	46	NP_005347	P06239	2	3	8	5	6
Lck	Lymphocyte-specific protein-tyrosine kinase	Y504	Y505	PK041	T	T	F	58	46	NP_005347	P06239	2	3	8	7	8
LIMK1/2	LIM domain kinase 1/2	Y508/T505	Y507/T508	PK042	T	T	T	73 / 72		NP_002305	P53667	2	3	8	9	10
Lyn	Yes-related protein-tyrosine kinase	Y507	Y507	PK043	T	T	T	58	46	NP_002341	P07948	2	4	1	5	6
MAPKAPK2	Mitogen-activated protein kinase-activated protein kinase 2	T222	T222	PK044	T	T	T	46	51	NP_004750	P49137	2	4	2	5	6
MAPKAPK2	Mitogen-activated protein kinase-activated protein kinase 2	T334	T334	PN049-1	T	T	T	46	45	NP_004750	P49137	2	4	2	7	8
MAPKAPK2	Mitogen-activated protein kinase-activated protein kinase 2	T334	T334	PN049-2	T	T	T	46	45	NP_004750	P49137	2	4	2	9	10
MARCKS	Myristoylated alanine-rich protein kinase C substrate	S158+S162	S158+S162	PN050-1	T	T	T	31	88+83	NP_002347	P29966	2	4	3	1	2
MARCKS	Myristoylated alanine-rich protein kinase C substrate	S158+S162	S158+S162	PN050-2	T	T	T	31	88+83	NP_002347	P29966	2	4	3	3	4
MEK1 [MAP2K1]	MAPK/ERK protein-serine kinase 1 (MKK1)	S297	S298	PK047-1	T	T	T	43	42	NP_002746	Q02750	2	4	4	1	2
MEK1 [MAP2K1]	MAPK/ERK protein-serine kinase 1 (MKK1)	S297	S298	PK047-2	T	T	T	43	42	NP_002746	Q02750	2	4	4	3	4
MEK1 [MAP2K1]	MAPK/ERK protein-serine kinase 1 (MKK1)	T291	T292	PK046-1	T	T	T	43	42	NP_002746	Q02750	2	4	4	5	6
MEK1 [MAP2K1]	MAPK/ERK protein-serine kinase 1 (MKK1)	T291	T292	PK046-2	T	T	T	43	42	NP_002746	Q02750	2	4	4	7	8
MEK1 [MAP2K1]	MAPK/ERK protein-serine kinase 1 (MKK1)	T291	T292	PK046-3	T	T	T	43	42	NP_002746	Q02750	2	4	4	9	10
MEK1 [MAP2K1]	MAPK/ERK protein-serine kinase 1 (MKK1)	T385	T386	PK048-1	T	T	T	43	42	NP_002746	Q02750	2	4	5	1	2
MEK1 [MAP2K1]	MAPK/ERK protein-serine kinase 1 (MKK1)	T385	T386	PK048-2	T	T	T	43	42	NP_002746	Q02750	2	4	5	3	4
MEK1 [MAP2K1]	MAPK/ERK protein-serine kinase 1 (MKK1)	T385	T386	PK048-3	T	T	T	43	42	NP_002746	Q02750	2	4	5	5	6
MEK1 [MAP2K1]	MAPK/ERK protein-serine kinase 1 (MKK1)	S217+S221	S217+S221	PK045	T	T	T	43	42	NP_002746	Q02750	2	4	5	7	8
MEK2 [MAP2K2]	MAPK/ERK protein-serine kinase 2 (MKK2) (human)	T394	T395	PK049	T	F	F	44	42	AAH00471.1	P36507	2	4	6	3	4
MEK2 [MAP2K2]	MAPK/ERK protein-serine kinase 2 (MKK2) (mouse)	T394	T395	PK050	F	T	T	44	42	NP_075627	P36507	2	4	6	5	6
MEK3 [MAP2K3]	MAP kinase protein-serine kinase 3 (MKK3)	S189	S218	PK051	T	T	T	36	35	NP_002747	P46734	2	4	6	9	10
MEK4 [MAP2K4]	MAP kinase protein-serine kinase 4 (MKK4)	S257+T261	S257+T261	PK052	T	T	T	44	41	NP_003001	P45985	2	4	7	3	4
MEK6 [MAP2K6]	MAP kinase protein-serine kinase 6 (MKK6)	S207	S207	PK053	T	T	T	37 + 31	35	NP_002749	P46734	2	4	6	9	10
Met	Hepatocyte growth factor (HGF) receptor-tyrosine kinase	Y1003	Y1001	PK054	T	T	T	156	154	NP_000236	P08581	3	1	1	1	2
Met	Hepatocyte growth factor (HGF) receptor-tyrosine kinase	Y1230+ Y1234+	Y1228+ Y1232+	PK055	T	T	T	156	158	NP_000236	P08581	3	1	1	3	4
MLK3	Mixed-lineage protein-serine kinase 3	T277+S281	T278+S282	PK056	T	T	T	93	133	NP_002410	Q16584	3	1	1	9	10
Mnk1	MAP kinase-interacting protein-serine kinase 1 (calmodulin-activated)	T209+T214	T197+T202	PK057	T	T	T	47	48	NP_003675	Q9BUB5	3	1	2	3	4
MRLC2	Myosin regulatory light chain isoform 1	S18	S19	PN051-1	T	T	T	20	20	NP_291024	P19105	3	1	2	9	10
MRLC2	Myosin regulatory light chain isoform 1	S18	S19	PN051-2	T	T	T	20	20	NP_291024	P19105	3	2	8	1	2
Msk1	Mitogen & stress-activated protein-serine kinase 1	S376	S375	PK058	T	T	T	90	71+78	NP_004746	O75582	3	1	3	3	4
mTOR [FRAP]	Mammalian target of rapamycin (FRAP)	S2448	S2448	PK116	T	T	T	289	199	NP_004949	P42345					
MYPT1	Myosin phosphatase target 1	T696	T694	PN052	T	T	T	115	141	NP_446342	O14974	3	1	4	3	4
NFkappaB p65	NF-kappa-B p65 nuclear transcription factor	S276	S276	PN053	T	T	T	64	64	NP_003989	Q04206	3	1	5	9	10



Target Protein	Target Protein Full Name	Phospho-site	Phospho-site	I.D. Code	Ab Reactivity			Actual Mol.	Obsv. Mol.	Link - Protein	Link - Swiss-	Meta Row	Meta Col-	Row	Col-umn 1	Col-umn 2
		Human	Mouse		Human	Mouse	Rat	Human	Human	Human	Human	Microarray	Spot	Coordinates		
NMDAR2B	N-methyl-D-aspartate (NMDA) glutamate receptor 2B subunit	Y1474	Y1474	PN054	T	T	T	166	166	NP_000825	Q13224	3	1	6	3	4
NR1	N-methyl-D-aspartate (NMDA) glutamate receptor 1 subunit zeta	S896	S896	PN055	T	T	T	105	109	NP_000823	Q05586	3	1	6	9	10
p27 Kip1	p27 cyclin-dependent kinase inhibitor 1B	T187	T187	PN056	T	T	T	22	26	NP_004055	P46527	3	1	8	3	4
p38α MAPK	Mitogen-activated protein-serine kinase p38 alpha	T180+Y182	T180+Y182	PK060-1	T	T	T	41	40+38+36	NP_001306	Q16539	3	1	8	9	10
p38α MAPK	Mitogen-activated protein-serine kinase p38 alpha	T180+Y182	T180+Y182	PK060-2	T	T	T	41	40+38+36	NP_001306	Q16539	3	2	1	1	2
p38α MAPK	Mitogen-activated protein-serine kinase p38 alpha	T180+Y182	T180+Y182	PK060-3	T	T	T	41	40+38+36	NP_001306	Q16539	3	2	1	3	4
p38α MAPK	Mitogen-activated protein-serine kinase p38 alpha	T180+Y182	T180+Y182	PK060-4	T	T	T	41	40+38+36	NP_001306	Q16539	3	2	1	5	6
p53	Tumor suppressor protein p53 (antigenNYCO-13)	S392	S389	PN057-1	T	T	F	44	49	NP_000537	P04637	3	2	2	5	6
p53	Tumor suppressor protein p53 (antigenNYCO-13)	S392	S389	PN057-2	T	T	F	44	49	NP_000537	P04637	3	2	2	7	8
p53	Tumor suppressor protein p53 (antigenNYCO-13)	S392	S389	PN057-3	T	T	F	44	49	NP_000537	P04637	3	2	2	9	10
PAK1/2/3	p21-activated protein-serine kinase 1/2/3	S144/S141/S154	S144/S141/S154	PK061	T	T	T	61/ 58 / 61	58 / 53	NP_002567	Q13153	3	2	3	7	8
Pax2	Paired box protein 2	S394	S393	PN058	T	T	T	45	37	Q02962	Q02962	3	2	4	9	10
Paxillin 1	Paxillin 1	Y118	Y118	PN060-1	T	T	T	65	69	NP_002850	P49023	3	2	5	1	2
Paxillin 1	Paxillin 1	Y118	Y118	PN060-2	T	T	T	65	69	NP_002850	P49023	3	2	5	3	4
Paxillin 1	Paxillin 1	Y31	Y31	PN059	T	T	T	65	70	NP_002850	P49023	3	2	5	5	6
PDGFRα	Platelet-derived growth factor receptor kinase alpha	Y742	Y742	PK062	T	T	T	123	176	NP_006197	P16234	3	2	6	3	4
PDGFRα	Platelet-derived growth factor receptor kinase alpha	Y754	Y754	PK063	T	T	T	123	180	NP_006197	P16234	3	2	6	5	6
PDGFRα/β	Platelet-derived growth factor receptor kinase alpha/beta	aY572+Y574/bY579+Y581	aY572+Y574/bY579+	PK064	T	T	T	123 / 124	180	NP_006197	P16234	3	2	6	7	8
PDGFRβ	Platelet-derived growth factor receptor kinase beta	Y716	Y715	PK065	T	T	T	123 / 124	180	NP_032835	P09619	3	2	6	9	10
PKD1	3-Phosphoinositide-dependent protein-serine kinase 1	S244	S241	PK066	T	T	T	63	56/59	NP_002604	O15530	3	2	7	3	4
PED15 (PEA15)	Phosphoprotein-enriched in diabetes/astrocytes 15	S116	S116	PN061	T	T	T	15	12	NP_003759	Q15121	3	2	7	7	8
PKA Cα/β	cAMP-dependent protein-serine kinase catalytic subunit alpha/beta	T197	T197	PK067	T	T	T	40 / 40	39	NP_002721	P17612	3	3	1	7	8
PKA Cβ	cAMP-dependent protein-serine kinase catalytic subunit beta	S338	S338	PK068	T	T	T	40	39	NP_002722	P22694	3	3	1	9	10
PKA R2α	cAMP-dependent protein-serine kinase regulatory type 2 subunit alpha	S98	S95	PK069	T	T	T	45	58	NP_523671	P13861	3	3	2	3	4
PKA R2β	cAMP-dependent protein-serine kinase regulatory type 2 subunit beta	S114	S114	PK070	T	T	T	46	38	NP_004148	P31323	3	3	2	5	6
PKBα [Akt1]	Protein-serine kinase B alpha (Akt1)	S473	S473	PK072-1	T	T	T	56	56/59	NP_005154	P31749	3	3	3	1	2
PKBα [Akt1]	Protein-serine kinase B alpha (Akt1)	S473	S473	PK072-2	T	T	T	56	56/59	NP_005154	P31749	3	3	3	3	4
PKBα [Akt1]	Protein-serine kinase B alpha (Akt1)	S473	S473	PK072-3	T	T	T	56	56/59	NP_005154	P31749	3	3	3	5	6
PKBα [Akt1]	Protein-serine kinase B alpha (Akt1)	T308	T308	PK071-1	T	T	T	56	56/60	NP_005154	P31749	3	3	2	9	10
PKBα [Akt1]	Protein-serine kinase B alpha (Akt1)	T308	T308	PK071-2	T	T	T	56	56/60	NP_005154	P31749	3	3	3	7	8
PKCα	Protein-serine kinase C alpha	S657	S657	PK073	T	T	T	77	79	NP_002728	P17252	3	3	4	9	10
PKCα/β2	Protein-serine kinase C alpha/beta 2	T638/T641	T638/T641	PK074	T	T	T	77 / 77	78/80	NP_002728	P17252	3	3	5	1	2
PKCβ1/2	Protein-serine kinase C beta 1/2	T500	T500	PK075	T	T	T	77 / 77	79	NP_997700	P05771	3	3	5	5	6
PKCβ2	Protein-serine kinase C beta 2	T641	T641	PK076	T	T	T	77	79	NP_002729	P05771	3	3	5	9	10
PKCδ	Protein-serine kinase C delta	S645	S643	PK079	T	T	T	77	74	NP_006245	Q05655	3	3	6	3	4
PKCδ	Protein-serine kinase C delta	S664	S662	PK080	T	T	T	77	74	NP_006245	Q05655	3	3	6	5	6
PKCδ	Protein-serine kinase C delta	T507	T505	PK078	T	T	T	77	70+74	NP_006245	Q05655	3	3	6	7	8
PKCδ	Protein-serine kinase C delta	Y313	Y311	PK077-1	T	T	T	77	74	NP_006245	Q05655	3	3	6	9	10
PKCδ	Protein-serine kinase C delta	Y313	Y311	PK077-2	T	T	T	77	74	NP_006245	Q05655	3	3	7	1	2
PKCε	Protein-serine kinase C epsilon	S729	S729	PK081-1	T	T	T	84	91	NP_005391	Q02156	3	3	7	5	6
PKCε	Protein-serine kinase C epsilon	S729	S729	PK081-2	T	T	T	84	91	NP_005391	Q02156	3	3	7	7	8
PKCγ	Protein-serine kinase C gamma	T514	T514	PK082-1	T	T	T	78	78/81	NP_002730	P05129	3	3	8	1	2
PKCγ	Protein-serine kinase C gamma	T514	T514	PK082-2	T	T	T	78	78/81	NP_002730	P05129	3	3	8	3	4
PKCγ	Protein-serine kinase C gamma	T655	T655	PK083	T	T	T	78	78/81	NP_002730	P05129	3	3	8	5	6
PKCγ	Protein-serine kinase C gamma	T674	T674	PK084	T	T	T	78	78/81	NP_002730.1	P05129	3	3	8	7	8
PKCη	Protein-serine kinase C eta	S674	S674	PK086	T	T	T	78	79	NP_006246	P24723	3	3	8	9	10
PKCη	Protein-serine kinase C eta	T655	T655	PK085	T	T	T	78	79	NP_006246	P24723	3	4	1	1	2
PKCι/λ	Protein-serine kinase C lambda/iota	T555	T554	PK087	T	T	T	67	79	NP_002731	P41743	3	4	1	5	6
PKCθ	Protein-serine kinase C theta	S676	S676	PK089	T	T	T	82	74	NP_006248	Q04759	3	4	2	1	2
PKCθ	Protein-serine kinase C theta	S695	S695	PK090	T	T	T	82	74	NP_006248	Q04759	3	4	2	3	4
PKCθ	Protein-serine kinase C theta	T538	T538	PK088	T	T	T	82	74	NP_006248	Q04759	3	4	2	5	6
PKCζ/λ	Protein-serine kinase C zeta/lambda	T410/T403	T410/T402	PK091	T	T	T	68 / 67	79	NP_002735	Q05513	3	4	2	9	10
PKD (PKCμ)	Protein-serine kinase C mu (Protein kinase D)	S738+S742	S744+S748	PK092	T	T	T	102	122	NP_002733	Q15139	3	4	3	3	4
PKD (PKCμ)	Protein-serine kinase C mu (Protein kinase D)	S910	S916	PK093-1	T	T	T	102	122	NP_002733	Q15139	3	4	3	5	6

Target Protein	Target Protein Full Name	Phospho-site	Phospho-site	I.D. Code	Ab Reactivity			Actual Mol.	Obsv. Mol.	Link - Protein	Link - Swiss-	Meta Row	Meta Col	Row	Col-umn 1	Col-umn 2
		Human	Mouse		Human	Mouse	Rat	Human	Human	Human	Human	Microarray	Spot	Coordinates		
PKD (PKC μ)	Protein-serine kinase C mu (Protein kinase D)	S910	S916	PK093-2	T	T	T	102	122	NP_002733	Q15139	3	4	3	7	8
PKR1	Double-stranded RNA-dependent protein-serine kinase	T451	T414	PK094	T	T	T	62	76+69	NP_002750	P19525	3	4	4	9	10
Plk1	Polo-like protein-serine kinase 1	T210	T210	PK117	T	T	T	68	68	NP_005021.2	P53350	3	4	5	3	4
PP1/C α	Protein-serine phosphatase 1 - catalytic subunit - alpha isoform	T320	T320	PP001	T	T	T	38	35	NP_002699	P62136	3	4	6	1	2
PRAS40	Proline-rich Akt substrate 40 kDa (Akt1S1)	T246	T247	PN062	T	T	T	27	44	NP_115751	Q96B36	3	4	8	5	6
PRK1 [PKN1]	Protein kinase C-related protein-serine kinase 1	T774	T778	PK095	T	T	T	104	126	NP_002732	Q16512	3	4	8	7	8
PRK2 [PKN2]	Protein kinase C-related protein-serine kinase 2	T816	none	PK096	T	T	T	112	135	NP_006247	Q16512	3	4	8	7	8
Progesterone Receptor	Progesterone receptor	S294	S294	PN104	T	T	T	100	100	NP_000917.3	P06401	4	1	1	5	6
PTEN	Phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase and protein phosphatase	S370	S370	PP002	T	T	T	47	53	NP_000305	P60484	4	1	2	1	2
PTEN	Phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase and protein phosphatase	S380+T382+S385	S380+T382+S385	PP003	T	T	T	47	55	NP_000305	P60484	4	1	2	3	4
Pyk2	Protein-tyrosine kinase 2	Y579	Y579	PK097	T	T	F	116	122	NP_775268	Q14289	4	1	3	9	10
Rac1/cdc42	Ras-related C3 botulinum toxin substrate 1	S71	S71	PN063	T	T	T	21	21	NP_008839	P60953	4	1	4	1	2
Rad17	Rad17 homolog	S645	S657	PN064	T	T	T	77	58+64+68	NP_579921	O75943	4	1	4	3	4
Raf1	Raf1 proto-oncogene-encoded protein-serine kinase	S259	S259	PK098	T	T	T	84	63+68	NP_002871	P04049	4	1	4	7	8
Rb	Retinoblastoma-associated protein 1	S612	S605	PN066	T	T	T	106	127	NP_000312	P06400	4	1	5	3	4
Rb	Retinoblastoma-associated protein 1	S780	S773	PN067	T	T	T	106	127	NP_000312	P06400	4	1	6	3	4
Rb	Retinoblastoma-associated protein 1	S807	S800	PN068	T	T	T	106	127	NP_000312	P06400	4	1	5	5	6
Rb	Retinoblastoma-associated protein 1	S807+S811	S800+S804	PN069	T	T	T	106	127	NP_000312	P06400	4	1	5	7	8
Rb	Retinoblastoma-associated protein 1	T356	T350	PN065	T	T	T	106	127	NP_000312	P06400	4	1	6	9	10
Rb	Retinoblastoma-associated protein 1	T821	T814	PN070	T	T	T	106	127	NP_000312	P06400	4	1	5	9	10
Rb	Retinoblastoma-associated protein 1	T826	T819	PN071	T	T	T	106	127	NP_000312	P06400	4	1	6	1	2
Ret	Ret receptor-tyrosine kinase	S696	S696	PN072	T	T	T	124	186	NP_065681	P07949	4	1	6	5	6
RSK1/2	Ribosomal S6 protein-serine kinase 1/2	S380/S386	S380/S386	PK101-1	T	T	T	83 / 84	89+78+70	NP_002944	Q15418	4	1	8	5	6
RSK1/2	Ribosomal S6 protein-serine kinase 1/2	S221/S227	S221/S227	PK099	T	T	T	83 / 84	89+78+70	NP_002944	Q15418	4	1	8	7	8
RSK1/2	Ribosomal S6 protein-serine kinase 1/2	S363/S369	S363/S369	PK100	T	T	T	83 / 84	89+78+70	NP_002944	Q15418	4	1	8	9	10
RSK1/2	Ribosomal S6 protein-serine kinase 1/2	S380/S386	S380/S386	PK101-2	T	T	T	83 / 84	89+78+70	NP_002944	Q15418	4	2	1	1	2
RSK1/2	Ribosomal S6 protein-serine kinase 1/2/3	T573/T577/T570	T573/T577/T570	PK102	T	T	T	83 / 84	89+78+70	NP_002944	Q15418	4	2	1	5	6
RSK1/3	Ribosomal S6 protein-serine kinase 1/3	T359+S363/T356+S360	T359+S363/T356+S360	PK103	T	T	T	83 / 84	89+78+70	NP_002944	Q15418	4	2	1	3	4
S6	40S ribosomal protein S6	S235	S235	PN073	T	T	T	29	38	NP_001001	P62753	4	2	2	1	2
S6K α	p70 ribosomal protein-serine S6 kinase alpha	T229	T252	PK104	T	T	T	56	80	NP_003152	P23443	4	2	2	9	10
S6K α	p70 ribosomal protein-serine S6 kinase alpha	T421+S424	T444+S447	PK106	T	T	T	56	62+69+86	NP_003152	P23443	4	2	2	5	6
S6K α	p70 ribosomal protein-serine S6 kinase alpha	T389	T412	PK105	T	T	T	56	69	NP_003152	P23443	4	2	2	7	8
Shc1	SH2 domain-containing transforming protein 1	Y349+Y350	Y349+Y350	PN074	T	T	T	63	68+49	NP_003020	P29353	4	2	3	7	8
SHP2	Protein-tyrosine phosphatase 1D (SHP2, SHPTP2, Svp, PTP2C)	S576	S580	PP004	T	T	T	68	48+70	NP_002825	Q06124	4	2	3	9	10
Smad1/5/9	SMA- and mothers against decapentaplegic homologs 1/5/9	S463+S465/S463+S465	S463+S465/S463+S465	PN075	T	T	T	52 / 52 / 52	65	NP_005891	Q15797	4	2	4	7	8
Smad2	SMA- and mothers against decapentaplegic homolog 2	S465+S467	S465/S467	PN076	T	T	T	52	53	NP_0010036.52	Q15796	4	2	4	9	10
SOX9	SRY (sex determining region Y)-box 9 (campomelic dysplasia, autosomal sex-	S181	S181	PN077	T	T	T	56	48	NP_000337	P48436	4	2	5	7	8
Src	Src proto-oncogene-encoded protein-tyrosine kinase	Y418	Y423	PK107	T	T	T	60	49	NP_005408	P12931	4	2	6	5	6
Src	Src proto-oncogene-encoded protein-tyrosine kinase	Y529	Y534	PK108	T	T	T	60	48+46	NP_005408	P12931	4	2	6	7	8
STAT1	Signal transducer and activator of transcription 1	S727	S727	PN078	T	T	T	87	83	NP_009330	P42224	4	2	7	1	2
STAT1	Signal transducer and activator of transcription 1	Y701	Y701	PN079-1	T	T	T	87	86	NP_009330	P42224	4	2	7	3	4
STAT1	Signal transducer and activator of transcription 1	Y701	Y701	PN079-2	T	T	T	87	86	NP_009330	P42224	4	2	7	5	6
STAT2	Signal transducer and activator of transcription 2	Y690	Y688	PN080	T	T	T	98	113	NP_005410	P52630	4	2	7	9	10
STAT3	Signal transducer and activator of transcription 3	S727	S727	PN081	T	T	T	88	81	NP_003141	P40763	4	2	8	3	4
STAT3	Signal transducer and activator of transcription 3	Y705	Y705	PN082	T	T	T	88	81	NP_003141	P40763	4	2	8	3	4
STAT5A	Signal transducer and activator of transcription 5A	Y694	Y694	PN083	T	T	T	91	93	NP_003143	P42229	4	2	8	9	10
Syk	Spleen protein-tyrosine kinase	Y352	Y346	PK109	T	T	T	72	71	NP_003168						
Synapsin 1	Synapsin 1 isoform Ia	S605	S605	PN105	T	F	F	74	73	NP_008881	P17600	4	3	2	1	2
Synapsin 1	Synapsin 1 isoform Ia	S9	S9	PN084	T	F	F	74	73	NP_008881	P17600	4	3	2	3	4
Tau	Microtubule-associated protein tau	S518	S493	PN106	T	T	T	79	Multiple bands	NP_005901	P10636	4	3	3	5	6
Tau	Microtubule-associated protein tau	S738	S713	PN107	T	T	T	78	Multiple bands	NP_005901	P10636	4	3	2	9	10
Tau	Microtubule-associated protein tau	S515	S490	PN085	T	T	T	79	Multiple bands	NP_005901	P10636	4	3	3	1	2
Tau	Microtubule-associated protein tau	S515+S518	S490+S493	PN086	T	T	T	79	Multiple bands	NP_005901	P10636	4	3	3	3	4
Tau	Microtubule-associated protein tau	S530	S505	PN088	T	T	T	79	Multiple bands	NP_005901	P10636	4	3	3	7	8

Target Protein	Target Protein Full Name	Phospho-site Human	Phospho-site Mouse	I.D. Code	Ab Reactivity			Actual Mol. Human	Obsv. Mol. Human	Link - Protein Human	Link - Swiss- Human	Meta Row	Meta Col-	Row	Col-umn 1	Col-umn 2
					Human	Mouse	Rat									
Tau	Microtubule-associated protein tau	S578	S553	PN089	T	T	T	79	Multiple bands	NP_005901	P10636	4	3	3	9	10
Tau	Microtubule-associated protein tau	S712	S687	PN090	T	T	T	79	Multiple bands	NP_005901	P10636	4	3	4	1	2
Tau	Microtubule-associated protein tau	S716	S691	PN091	T	T	T	79	Multiple bands	NP_005901	P10636	4	3	4	3	4
Tau	Microtubule-associated protein tau	S720	S695	PN092	T	T	T	79	Multiple bands	NP_005901	P10636	4	3	4	5	6
Tau	Microtubule-associated protein tau	T547	T547	PN108	T	T	T	80	Multiple bands	NP_005901	P10636	4	3	4	7	8
Tyrosine Hydroxylase	Tyrosine hydroxylase isoform a	S18	S19	PN109	T	T	T	59	68	NP_954986	P07101	4	3	7	5	6
Tyrosine Hydroxylase	Tyrosine hydroxylase isoform a	S70	S40	PN093	T	T	T	59	68	NP_954986	P07101	4	3	7	7	8
VEGFR2 [KDR]	Vascular endothelial growth factor receptor-tyrosine kinase 2 (Flk1)	Y1054	Y1052	PK110	T	T	T	152	226	NP_002244	P35968	4	3	7	9	10
VEGFR2 [KDR]	Vascular endothelial growth factor receptor-tyrosine kinase 2 (Flk1)	Y1054+Y1059	Y1052+Y1057	PK111	T	T	T	152	226	NP_002244	P35968	4	3	8	1	2
Vimentin	Vimentin	S33	S33	PN094	T	T	T	54	54	NP_003371	P08670	4	3	8	5	6
Vinculin	Vinculin	Y821	Y821	PN095	T	T	T	124	112	NP_003364	P18206	4	3	8	7	8
ZAP70	Zeta-chain (TCR) associated protein-tyrosine kinase, 70 kDa	Y292	Y290	PK112	T	T	T	70	71	NP_001070	P43403	4	4	1	9	10
ZAP70	Zeta-chain (TCR) associated protein-tyrosine kinase, 70 kDa	Y315+Y319	Y315+Y319	PK113	T	T	T	70	71	NP_001070	P43403	4	4	2	1	2
ZAP70	Zeta-chain (TCR) associated protein-tyrosine kinase, 70 kDa	Y319	Y319	PK114	T	T	T	70	71	NP_001070	P43403	4	4	2	3	4



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