

Supplementary Table I. Phospho-residues and phospho-peptides identified by MS and LC-MS/MS

	Phospho-residues [#]	Phospho-peptides
1	S9	7-VF _p SPHTLQSSAF-18
2	S111	111- _p STVSLLDITYQK-121
3	S128	126-RK _p SEEIENTSSVQIEEHPPMIQNN-150
4	T134	126-RKSEEIEN _p TSSVQIEEHPPMIQNN-150
5	T245	243-LS _p TESADDYNFVR-255
6	T266	264-NH _p TCLVFEMLEQNLYDFLK-282
7	Y354	349-AVCST _p YLQSR-358
8	S434	431-DTD _p SPYPLWR-440
9	T475	474-M _p TTDLEGSDMLVEK-487
10	T510	508-RV _p TPIETLNHPFVTMTLLDFPHSAHVK-535
11	T559	547-RVNMYDTVNQSK _p TPFITH-564
12	S628	628- _p SMPLQTGTATQICAR-640
13	S661	641-PDPFQQALIVCPPGFQGLQA _p SPSK-664
14	T680	672-MENAVPIV _p TQAPGAQPLQIQPGLLAQ-697
15	S808	806-NV _p STCEVTSSQAISPPQR-823
16	S820	806-NVSTCEVTSSQAIS _p SPQR-823
17	S840 or S841	835-CAMVH _p S _p SPACSTSVTCGWGDVASSTTR-861
18	S927	907-NVISCVTVHDSPYSDSSNT _p SPYSVQQR-934
19	S984	967-TQASEVLVECDLGPAL _p SASHHSSSFK-993
20	S986	967-TQASEVLVECDLGPAL _p SAHHSSSFK-993
21	S1035	1022-PGPHFQQQQPLNL _p SQAQQHHAADR-1045
22	S1146	1143-VLP _p SPTIHPSQIPAQF-1158
23	S1179	1174-TGYPL _p SPAKVNQYPYI-1189

Residue numbers are referred to murine HIPK2 (GenBank accession number AF077659).

In light grey are indicated phosphorylated sites identified employing the kinase domain carrying HIPK2(158-557) deletion mutants.