

## Supplementary Table S2. MS scan for sumoylation of RACK1B *in vivo*

	Reference	PepCount	UniquePepCount	CoverPercent	MW	PI	Score	DeltaScore	ExpectValue	Ions	Reference	DIFF_MOD	PI	MissCleavage	Modification	MatchedTIC	NumProteaseTermini	Engine	Decoy	
	FileScan	Sequence	MH+	Diff (MH+)	Charge	Rank														
\$1-1	AtrACK1B		15	39.57%	35800.11	6.66														
	R15025_10_1_2, 22656	K. DGVILLWDLAEGK. K	1428.7733	-0.00043	2	1	26.27	0	1.18E-04	0 0	AtrACK1B			4.03	0	0	0	2	MASCOT	T
	R15025_10_1_2, 15528	K. DVLSVAFSTDNK. Q	1323.65393	0.00058	2	1	33.93	0	2.02E-05	0 0	AtrACK1B			4.21	0	0	0	2	MASCOT	T
	R15025_10_1_2, 15619	K. DVLSVAFSTDNK. Q	1323.65393	0.00028	2	1	65.48	0	1.42E-08	0 0	AtrACK1B			4.21	0	0	0	2	MASCOT	T
	R15025_10_1_2, 11744	K. LWNTLGECK. Y	1120.54555	-0.00012	2	1	33.48	0	4.49E-05	0 0	AtrACK1B			5.99	0	0	0	2	MASCOT	T
	R15025_10_1_2, 11840	K. LWNTLGECK. Y	1120.54555	0.00036	2	1	32.82	0	5.22E-05	0 0	AtrACK1B			5.99	0	0	0	2	MASCOT	T
	R15025_10_1_2, 13864	K. SVVEDLKYVDLK. A	1244.70964	-0.00009	2	1	36.87	0	2.06E-05	0 0	AtrACK1B			4.56	1	0	0	2	MASCOT	T
	R15025_10_1_2, 6967	K. YTISEADGHK. E	1120.52691	0.00033	2	1	33.39	0	4.58E-05	0 0	AtrACK1B			5.32	0	0	0	2	MASCOT	T
	R15025_10_1_2, 11189	K. YTISEADGHKEWVSCVR. F	2036.94945	0.00059	3	1	32.3	0	2.94E-05	0 0	AtrACK1B			5.45	1	0	0	2	MASCOT	T
	R15025_10_1_2, 20747	R. FSPNTLVPTIVSASWDK. T	1861.96945	-0.00048	2	1	35.2	0	1.51E-05	0 0	AtrACK1B			5.84	0	0	0	2	MASCOT	T
	R15025_10_1_2, 13652	R. LWDLATGESTR. R	1248.62189	0.0005	2	1	63.83	0	2.07E-08	0 0	AtrACK1B			4.37	0	0	0	2	MASCOT	T
	R15025_10_1_2, 13741	R. LWDLATGESTR. R	1248.62189	0.00032	2	1	45.45	0	1.43E-06	0 0	AtrACK1B			4.37	0	0	0	2	MASCOT	T
	R15025_10_1_2, 13839	R. LWDLATGESTR. R	1248.62189	0.00002	2	1	29.3	0	5.87E-05	0 0	AtrACK1B			4.37	0	0	0	2	MASCOT	T
	R15025_10_1_2, 13931	R. NTLAGHSGYLNTVAVSPDGLCASGGK. I	2633.26242	0.00179	3	1	44.36	0	1.83E-06	0 0	AtrACK1B			6.73	0	0	0	2	MASCOT	T
	R15025_10_1_2, 14583	R. YWLCAATENSIR. I	1483.6998	0.00095	2	1	50.84	0	4.12E-07	0 0	AtrACK1B			5.99	0	0	0	2	MASCOT	T
	R15025_10_1_2, 14678	R. YWLCAATENSIR. I	1483.6998	0.00055	2	1	35.38	0	1.45E-05	0 0	AtrACK1B			5.99	0	0	0	2	MASCOT	T
\$2-1	AtSUMO_1_H89R		8	29.03%	10493.61	4.93														
	R15025_10_1_2, 11835	K. GQDQNEVFFR. I	1168.53818	0.00011	2	1	64.14	0	1.93E-08	0 0	AtSUMO_1_H89R			4.37	0	0	0	2	MASCOT	T
	R15025_10_1_2, 11926	K. GQDQNEVFFR. I	1168.53818	-0.00001	2	1	64.22	0	1.89E-08	0 0	AtSUMO_1_H89R			4.37	0	0	0	2	MASCOT	T
	R15025_10_1_2, 12014	K. GQDQNEVFFR. I	1168.53818	-0.00011	2	1	64.46	0	1.79E-08	0 0	AtSUMO_1_H89R			4.37	0	0	0	2	MASCOT	T
	R15025_10_1_2, 12105	K. GQDQNEVFFR. I	1168.53818	0.00017	2	1	51.16	0	3.83E-07	0 0	AtSUMO_1_H89R			4.37	0	0	0	2	MASCOT	T
	R15025_10_1_2, 12204	K. GQDQNEVFFR. I	1168.53818	-0.00009	2	1	63.16	0	2.42E-08	0 0	AtSUMO_1_H89R			4.37	0	0	0	2	MASCOT	T
	R15025_10_1_2, 10685	K. VKGQDQNEVFFR. I	1395.70155	-0.00021	2	1	48.88	0	6.47E-07	0 0	AtSUMO_1_H89R			6.04	1	0	0	2	MASCOT	T
	R15025_10_1_2, 10775	K. VKGQDQNEVFFR. I	1395.70155	0.00091	2	1	77.46	0	8.97E-10	0 0	AtSUMO_1_H89R			6.04	1	0	0	2	MASCOT	T
	R15025_10_1_2, 21190	R. QSVDMNSIAFLFDGR. R	1699.81083	0.00111	2	1	54.21	0	1.90E-07	0 0	AtSUMO_1_H89R			4.21	0	0	0	2	MASCOT	T

----- summary -----

Total protein: 2

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UniPepCount	ProteinGroupCount	Percent	ProteinCount	Percent
3	1	50.00%	1	29.03%
10	1	50.00%	1	39.57%