

Supplementary Table 4. Reactions of prior knowledge network (PKN) and Pubmed IDs of respective publications that report the interactions.

No	Reactions	Pubmed ID
1	NGF→TrkA	7571013
2	TrkA→SHC	7541035
3	FAK→SHC	9032297,10347094
4	SHC→GRB2	7513258, 7486657
5	GRB2→SOS	7739560, 8577724
6	SOS→RAS	9690470, 8828504, 11777939
7	TrkA→FRS2	10629055, 10092678
8	FRS2 →C3G	10092678, 11278445
9	C3G→RAP1	8524240, 8524240, 12734187, 10753869, 17093062, 9856955, 9853756
10	RAS→RAF	18316782, 9069260
11	PKC→RAF	7534287, 8321321
12	RAF →MEK	10082509, 19074159
13	MEKK1→MEK	16006144
14	MEK→ERK	9069255, 18321244, 20665674
15	ERK→RSK	8674434, 11752651, 11591711, 11865188, 11278279
16	TrkA→PI3K	12133829, 1380963
17	PI3K →AKT	9321394, 17826033
18	TrkA→PLC	11283249, 1712104
19	G(i/o)→PLC	18508528
20	PLC →DAG	11048639, 10579907
21	PLC →Ca ²⁺	11048639, 2550825
22	DAG →PKC	2550825, 12495431
23	Ca ²⁺ →PKC	3014651
24	AP1→uPAR	15963460
25	uPAR→uPA/PLAT	8798468
26	uPA/PLAT→Plasmin	1381366, 6891264, 1378833, 10190280, 11359936, 15688295
27	Plasmin→Mmp3/10	9398846
28	Mmp3/10 → ECM	10469644, 8612226
29	ECM →Itga1	10215583
30	Itga1→FAK	16919435, 9616126
31	RAP-1→FAK	23209645, 11809811
32	AP1→Npy	11150315
33	Npy→NPYY1	18641693
34	NPYY1→G(i/o)	9089810, 12209475, 118641693, 9263910, 12710520
35	RAS →RAC1	9808620, 10793146, 16203995
36	RAC1→MEKK4	9079650
37	RAC1→MEKK1	11057896, 9305638, 14581471, 9712898
38	MEKK4→MKK6	17726008, 9305639
39	MEKK4→Mapk3k	17726008, 1154276
40	MEKK1→MKK7	11416147
41	MKK7→JNK	12624093, 9535930
42	MKK4→JNK	9890951, 11057897
43	Mapk3k →P38	8622669, 11304531
44	MKK6 →P38	11304531
45	P38→ATF2	7535770, 12110590
46	ERK→ATF2	12110590
47	JNK→ATF2	10777545, 25456131
48	RSK→CREB	8688081, 11909979
49	AKT→CREB	10579998, 12388598, 10753867, 9829964
50	MSK1/2→CREB	11909979

No	Reactions	Pubmed ID
51	ERK→MSK1/2	9687510
52	P38→MSK1/2	9687510
53	RSK→SRF	8413226, 16868029
54	EGR1→ARC	21887136
55	CREB→ARC	19116276
56	ERK→JUNB	22443687
57	JNK→JUNB	22443687, 14617628
58	AKT→JUNB	21135252
59	ERK→JUND	12835716
60	JNK→JUND	14676207, 12226747
61	FOSL1→AP1	11150315
62	JUND→AP1	15564374, 11150315
63	FOS→AP1	9069263, 12226747, 15564374
64	JUNB→AP1	9069263, 12226747, 15564374
65	ERK→KLF4	12226747, 20711222, 22307056
66	JNK→KLF4	20711222
66	AKT→KLF4	23762260
68	ERK→KLF2	24905170
69	AKT→KLF2	20525885, 15834135, 16571724
70	JNK→KLF2	20032497
71	ERK→KLF5	19628677
72	AKT→KLF5	18424767
73	P53→KLF5	16595680
74	JNK→P53	9732264, 9724739
75	ERK→P53	10781582
76	AKT→P53	17126425
77	JNK→KLF6	19333010
78	P53→KLF6	18174288
79	AKT→KLF10	21873430, 19013137
80	ERK→KLF10	117574220, 19013137
81	JNK→KLF10	23164821
82	CREB→CITED2	11279224, 15051727
83	ERK→CITED2	23082118, 17283246
84	P53→CITED2	18495890
85	JNK→BTG2	11267995
86	AKT→BTG2	14734530
87	JNK→ZFP36	12646273
88	ERK→ZFP36	22433566
89	JNK→MYC	11597764, 10551811, 16483932
90	ERK→MYC	11597764, 16899113, 16483932
91	AKT→MYC	22461507
92	ERK→ETS1	18039929, 15572696, 25294825
93	JNK→ETS1	23966295, 11027273
94	ETS1→Dusp6	18321244, 20097731
95	ERK→Egr1	12393577, 16858414, 20554967
96	AKT→Egr1	14769801, 18844239
97	JNK→Egr1	19681663, 22577133
98	ERK→Fos	12134156, 16123044, 20493519
99	AKT→Fos	23408974, 9690619
100	JNK→Fos	14511403, 10972672, 11410534
101	ERK→Stat3	9343414, 10521505, 11553624
102	JNK→Stat3	10521505, 11553624
103	ERK→Maff	21494257, 19251651
104	JNK→Maff	19013137
105	ATF2→Maff	21278380
106	ERK→Fosl1	12197835, 11756554
107	AKT→Fosl1	16490785, 17872495
108	JNK→Fosl1	12665585