

IFN+MAP

Significantly Phosphorylated in IFN+MAP Treatment

Peptide	p-value increased phosphorylation	p-value decreased phosphorylation	Fold Change
Bad_S118	0.0277765	0.9722235	1.25895586
CSK_Y184	0.03393936	0.96606064	1.2469617
EphA2_Y772	0.0416433	0.9583567	1.18496894
PKR_T446	0.04922419	0.95077581	1.36956644
SRF_S77/79	0.07387082	0.92612918	1.11626273
CTNNB1_Y142	0.09368064	0.90631936	1.32225116
TrkB_Y706/7	0.11722524	0.88277476	1.15452532
Etk_Y40	0.12078965	0.87921035	1.13946893
PKACa_T195/7	0.12135841	0.87864159	1.17415416
HSP70_Y525/6	0.1226557	0.8773443	1.12681282
RIPK1_Y384/7/9	0.12625498	0.87374502	1.17332922
CTSB_Y219	0.12884783	0.87115217	1.21042902
CDK7_T170	0.14669787	0.85330213	1.11915825
Crk_Y221	0.15143208	0.84856792	1.05657693
CTNNB1_T41/45	0.15276719	0.84723281	1.23397758
Smad3_S208	0.15348395	0.84651605	1.16330181
HSP60_Y227	0.15886406	0.84113594	1.11008801
NFkB-p100_S865	0.16449063	0.83550937	1.20754364
IL-16_S143/4	0.16458288	0.83541712	1.17421371
Met_Y1234/5	0.16660712	0.83339288	1.14012475
EphA2_Y588	0.16915633	0.83084367	1.17108151
EphA2_Y594	0.17283934	0.82716066	1.08978981
LRRFIP1_S690	0.17477117	0.82522883	1.04691864
PDGFRb_Y579/81	0.17511956	0.82488044	1.14114393
Akt1_Y326	0.17536246	0.82463754	1.15715399
Kit_Y721	0.17561163	0.82438837	1.09611284
IL7R_Y449	0.17799963	0.82200037	1.16118079
JNK2_T404/7	0.19278121	0.80721879	1.06581924
CDK2_T14/5	0.19902487	0.80097513	1.14095346

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TPH1_S58	0.99086418	0.00913582	-1.4067558
ERK2_Y205	0.98129683	0.01870317	-1.1018525
Jak3_Y981	0.97835585	0.02164415	-1.2686522
BATF_T48	0.97327886	0.02672114	-1.2072134
ERK3_S189	0.96349155	0.03650845	-1.1748066

VEGFR3_Y1265	0.93727726	0.06272274	-1.1762841
DAPK1_S308	0.93491725	0.06508275	-1.2486118
MKP-1_S359	0.93421869	0.06578131	-1.1339947
MEK1_S217	0.93154602	0.06845398	-1.2545042
STAT2_Y690	0.91958873	0.08041127	-1.1536919
LEF-1_S166	0.91314771	0.08685229	-1.1585481
Mos_S25	0.91247105	0.08752895	-1.3194136
iNOS_Y151	0.91140512	0.08859488	-1.1807969
PKCT_Y90	0.90532334	0.09467666	-1.1908738
PKCE_S729	0.90243059	0.09756941	-1.179423
Casp3_S150	0.88432813	0.11567187	-1.1027433
Cot_S400	0.88385234	0.11614766	-1.1831684
IGF1R_Y1166	0.88142658	0.11857342	-1.1476821
Elk-1_S389	0.87906715	0.12093285	-1.1084415
Jak1_Y1022/3	0.8781089	0.1218911	-1.1613208
Fas_Y291	0.87033106	0.12966894	-1.1866056
ASK1_S966	0.85281004	0.14718996	-1.1709725
STAT3_Y705	0.8425866	0.1574134	-1.1164437
VEGFR-1_Y1169	0.82154647	0.17845353	-1.2027472
iNOS_S739	0.8199469	0.1800531	-1.0965608
FGFR4_Y754	0.80888614	0.19111386	-1.1359882
PKG1_T58	0.80747282	0.19252718	-1.1537957

IFN

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NFkB-p65_S276	0.00294412	0.99705588	1.22905074
IRF-5_S437	0.00965269	0.99034731	1.12134725
VEGFR-2_Y1214	0.01180219	0.98819781	1.21487159
Smad3_S208	0.01285427	0.98714573	1.23999144
Etk_Y40	0.01535303	0.98464697	1.13011897
RIPK1_Y384/7/9	0.02135576	0.97864424	1.29275207
PLCG1_Y783	0.02166427	0.97833573	1.13687442
NFkB-p65_S311	0.02173159	0.97826841	1.25784946
CBP_S2063	0.02404176	0.97595824	1.20276828
IRAK1_T100	0.02756506	0.97243494	1.2031179
TAK1_T184	0.02810742	0.97189258	1.12049787
Akt1_Y326	0.0296532	0.9703468	1.30205613
VEGFR3_Y130/1	0.03225388	0.96774612	1.35947435
STAT3_S727	0.03237057	0.96762943	1.36097212
PKACa_T195/7	0.03263069	0.96736931	1.16505468
Smad1_S462/3/5	0.04097152	0.95902848	1.22014147

RelB_S573	0.04168609	0.95831391	1.19647028
Smad2_S255	0.04343192	0.95656808	1.2296676
GSK3-beta_Y216	0.04389774	0.95610226	1.1488948
IFNAR1_Y466	0.04411528	0.95588472	1.14108116
STAT3_Y705	0.04625675	0.95374325	1.1569018
MKP-1_S359	0.04917213	0.95082787	1.33491791
NFAT1_S326	0.05069106	0.94930894	1.15030625
STAT5B_Y699	0.05380367	0.94619633	1.13993544
ATF-2_T51/3/5	0.05389689	0.94610311	1.16907093
EphA2_Y588	0.05470002	0.94529998	1.2454737
Jun_S63	0.05958285	0.94041715	1.33231504
CSK_Y184	0.05963984	0.94036016	1.1492423
DAPP1_Y139	0.06049081	0.93950919	1.15901413
Btk_Y223	0.0614067	0.9385933	1.16268892
STAT2_Y690	0.06217977	0.93782023	1.13253854
MEK2_Y216	0.063318	0.936682	1.33207495
STAT4_Y693	0.06544234	0.93455766	1.26117136
GSK3-beta_S9	0.06660658	0.93339342	1.28364282
Btk_Y551	0.06799186	0.93200814	1.10736661
Bad_S118	0.06894264	0.93105736	1.1398848
IL7R_Y449	0.07251322	0.92748678	1.15587821
PLCB1_S887	0.07768138	0.92231862	1.0973702
NFkB-p100_S865	0.08602286	0.91397714	1.12332201
IKK-beta_Y199	0.08629324	0.91370676	1.22308922
ERK2_Y205	0.08844912	0.91155088	1.12574867
FADD_S194	0.08984969	0.91015031	1.10408692
HMGA1_T52	0.08990062	0.91009938	1.09308845
MKP-1_S323	0.08991214	0.91008786	1.17216484
RhoA_S188	0.09049088	0.90950912	1.29553243
p38-alpha_T180/2	0.09095545	0.90904455	1.09725299
ERK3_S189	0.09400626	0.90599374	1.23261683
PXN_Y31	0.09645627	0.90354373	1.12186634
Syk_Y525/6	0.09743717	0.90256283	1.11670073
GCAP2_S200	0.09796385	0.90203615	1.10348721
IL-16_S143/4	0.10099606	0.89900394	1.20497921
IRF-3_S385/6	0.10458099	0.89541901	1.12265549
PDGFRb_Y579/81	0.11136465	0.88863535	1.09967245
BCAP_Y281	0.1131217	0.8868783	1.0953967
TrkB_Y706/7	0.11857163	0.88142837	1.08015028
Smad3_S422/3/5	0.12250379	0.87749621	1.11895607
CaMK2-	0.12917416	0.87082584	1.20373147

alpha_T286

CTNNB1_T41/45	0.13492467	0.86507533	1.11418902
IL4R_Y713	0.14013214	0.85986786	1.15765342
HSP70_Y525/6	0.14657891	0.85342109	1.08666595
IL1A_S87	0.14691007	0.85308993	1.13536862
IKK-beta_Y188	0.15576468	0.84423532	1.10327128
PKR_T451	0.16174434	0.83825566	1.08385676
CDK2_T14/5	0.16596542	0.83403458	1.12656944
B-Raf_T598	0.16618618	0.83381382	1.09039815
gp130_Y767	0.16746176	0.83253824	1.15156972
STMN1_S62	0.17635198	0.82364802	1.15632089
PKR_T446	0.18198196	0.81801804	1.09296602
JNK1_S377	0.18556795	0.81443205	1.14875367
SEK1_S257/0	0.18676111	0.81323889	1.0803009
WASP_Y291	0.1877837	0.8122163	1.05767998
EphA2_Y772	0.19453657	0.80546343	1.0890281
NFkB-p105_S907	0.19987677	0.80012323	1.10984966

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iNOS_S739	0.99903665	0.00096335	-1.2356352
Cdc42_Y64	0.99883926	0.00116074	-1.2266414
Fes_Y713	0.99773782	0.00226218	-1.2802904
PKCT_Y90	0.99730596	0.00269404	-1.2927953
PKCA_T637	0.99683637	0.00316363	-1.2267412
RBL2_SYMSP_NA	0.99519752	0.00480248	-1.1831218
TNF-R1_S274	0.99461444	0.00538556	-1.185385
MSK2_S196	0.99226357	0.00773643	-1.1582402
FGFR1_Y463	0.99163324	0.00836676	-1.1705461
ASK1_S83	0.99155714	0.00844286	-1.2384475
DAPK1_S308	0.99052168	0.00947832	-1.2379602
Fas_Y232	0.99050275	0.00949725	-1.1629178
ADCY8_Y406	0.98746827	0.01253173	-1.1039275
JIP1_T103	0.98667723	0.01332277	-1.1481361
iNOS_S909	0.98413411	0.01586589	-1.1977704
Raf1_S499	0.98163056	0.01836944	-1.1867526
RasGAP_Y460	0.97781734	0.02218266	-1.1055621
iNOS_Y151	0.9733668	0.0266332	-1.2584071
Shc1_Y349/0	0.97092553	0.02907447	-1.1588613
TPH1_S58	0.96682457	0.03317543	-1.2385515
PKCE_S729	0.96443655	0.03556345	-1.2128051
TNFRSF5_T254	0.96255597	0.03744403	-1.0908506

PKCA_S656	0.95835279	0.04164721	-1.2196237
Akt1_NA	0.95375583	0.04624417	-1.149414
VIM_S39	0.95345095	0.04654905	-1.1455081
PPARG_S112	0.95331872	0.04668128	-1.1279212
Ezrin_T566	0.95196726	0.04803274	-1.2639728
HSP60_Y227	0.95109103	0.04890897	-1.1147203
p53_S6/9	0.94844491	0.05155509	-1.1350845
SRF_S77/79	0.94801957	0.05198043	-1.0981066
Src_S74	0.94284659	0.05715341	-1.129458
CREB_S110/1	0.94234705	0.05765295	-1.1096403
CREB_S129	0.93710711	0.06289289	-1.1244092
IL-8R-B_S347	0.93284542	0.06715458	-1.1191668
MSK2_S347	0.9280279	0.0719721	-1.058311
PKG1_T58	0.92641627	0.07358373	-1.2199888
Lyn_Y507	0.92574113	0.07425887	-1.1504613
JNK3_T131	0.92106998	0.07893002	-1.1204819
BCAP_Y17	0.90612695	0.09387305	-1.1115596
VEGFR3_Y1265	0.87930167	0.12069833	-1.0810463
CCR7_T372/3/4/5/7	0.86819621	0.13180379	-1.11406
Crk_Y221	0.86746451	0.13253549	-1.0825631
PKCB_S15/T16	0.83766601	0.16233399	-1.1081156
p70S6Kb_S473/4	0.82676275	0.17323725	-1.0923907
LRRFIP1_S497	0.81489519	0.18510481	-1.0649962
CSFR_Y561	0.81234443	0.18765557	-1.0625892
LEF-1_S166	0.81173567	0.18826433	-1.0548798
Fas_Y291	0.8084845	0.1915155	-1.1072702

MAP Infected

Significantly Phosphorylated in MAP Infected

GSK3-beta_S9	0.00245478	0.99754522	1.26775014
CDK7_T170	0.00265857	0.99734143	1.24801162
CSK_Y184	0.00422129	0.99577871	1.18670573
STMN1_S62	0.00505407	0.99494593	1.35103504
RIPK1_Y384/7/9	0.00879566	0.99120434	1.37559582
MEK2_Y216	0.01108024	0.98891976	1.42962592
Akt1_Y326	0.01165393	0.98834607	1.38006474
IRAK1_T100	0.01423535	0.98576465	1.25721463
Smad3_S422/3/5	0.0146491	0.9853509	1.29601038
Btk_Y223	0.0184223	0.9815777	1.29725837
Smad3_S208	0.02243614	0.97756386	1.48680823
Etk_Y40	0.02923327	0.97076673	1.19946028

P38-gamma_T183/5	0.03035747	0.96964253	1.18575352
NFAT1_S326	0.03087256	0.96912744	1.27663456
NFkB-p100_S865	0.03274152	0.96725848	1.31002125
p47phox_S370	0.04154038	0.95845962	1.45683016
Smad1_S462/3/5	0.04220737	0.95779263	1.47659811
CTNNB1_T41/45	0.04556136	0.95443864	1.21038838
PLCG1_Y783	0.04738578	0.95261422	1.17382752
NFkB-p65_S276	0.05058436	0.94941564	1.27894002
ATF-2_T51/3/5	0.053564	0.946436	1.30121677
TrkB_Y706/7	0.0539592	0.9460408	1.15634165
JNK1_S377	0.05901243	0.94098757	1.15692593
CTNNB1_Y142	0.06406247	0.93593753	1.16581079
Casp3_S150	0.06521347	0.93478653	1.14328124
HMGA1_T52	0.07390078	0.92609922	1.23364072
STAT5B_Y699	0.07434444	0.92565556	1.15330765
Rb_S795	0.0856667	0.9143333	1.18255647
GCAP2_S200	0.08611309	0.91388691	1.21565958
FGFR1_Y154	0.08878415	0.91121585	1.22710776
IKK-beta_Y199	0.09186199	0.90813801	1.20571025
CDK2_T160	0.0930423	0.9069577	1.18799283
PXN_Y31	0.09469521	0.90530479	1.09310144
Bad_S118	0.10248854	0.89751146	1.1468493
Daxx_S668/71	0.10513768	0.89486232	1.40495531
NFkB-p65_S311	0.11023734	0.88976266	1.28049058
CSFR_Y809	0.11094559	0.88905441	1.0665122
JNK2_S129	0.11928934	0.88071066	1.17946174
PKR_T446	0.1222167	0.8777833	1.2114064
TrkC_Y516	0.12374757	0.87625243	1.2542774
MKP-1_S323	0.12421973	0.87578027	1.15544955
PKACa_T195/7	0.13738104	0.86261896	1.13808079
CDK2_T14/5	0.14086623	0.85913377	1.17067789
IRF-5_S437	0.1417829	0.8582171	1.09684449
PLCB1_S887	0.15067749	0.84932251	1.13213668
TAK1_T184	0.15566871	0.84433129	1.09051792
gp130_Y767	0.16094855	0.83905145	1.16899732
Smad2_S255	0.16163501	0.83836499	1.17966447
STAT4_Y693	0.17065756	0.82934244	1.17745393
IL-16_S143/4	0.17455752	0.82544248	1.18980598
IL7R_Y449	0.17634568	0.82365432	1.17916168
ATF-2_S44	0.19053343	0.80946657	1.09847725
p38-alpha_T180/2	0.19075038	0.80924962	1.084703

EphA2_Y588	0.19231051	0.80768949	1.14937752
NFkB-p105_S907	0.19329926	0.80670074	1.14740605
IFNGR1_Y479	0.19592036	0.80407964	1.09271763
RhoA_S188	0.19876957	0.80123043	1.20878538

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iNOS_Y151	0.99944865	0.00055135	-1.4319726
PKCA_S656	0.99846187	0.00153813	-1.3399799
SRF_S77/79	0.9975641	0.0024359	-1.1181275
RasGAP_Y460	0.98982897	0.01017103	-1.1173616
IkB-beta_T19/23	0.98911791	0.01088209	-1.1186795
Fes_Y713	0.98741374	0.01258626	-1.1121353
p53_S6/9	0.98455648	0.01544352	-1.1338648
TPH1_S58	0.98336848	0.01663152	-1.3006108
PKCT_Y90	0.98327644	0.01672356	-1.3882393
DAPK1_S308	0.98240672	0.01759328	-1.3952159
Cdc42_Y64	0.97997603	0.02002397	-1.2446797
CREB_S129	0.97856644	0.02143356	-1.1406109
MSK2_S196	0.97680468	0.02319532	-1.2399964
TNFRSF5_T254	0.97200063	0.02799937	-1.156617
iNOS_S909	0.96973302	0.03026698	-1.2474244
Mos_S25	0.96914357	0.03085643	-1.2063708
PPARG_S112	0.96664823	0.03335177	-1.1539541
iNOS_S739	0.95687059	0.04312941	-1.2382111
ASK1_S83	0.94635751	0.05364249	-1.1550218
Akt1_NA	0.94348635	0.05651365	-1.1624275
BCAP_Y17	0.94328186	0.05671814	-1.1637276
Shc1_Y349/0	0.92432198	0.07567802	-1.1018488
PIK3R1_S608/7	0.92009274	0.07990726	-1.1575963
Fas_Y232	0.90875269	0.09124731	-1.1780698
Crk_Y221	0.90597553	0.09402447	-1.100605
MSK2_S347	0.90384498	0.09615502	-1.1165659
JIP1_T103	0.8999439	0.1000561	-1.1177703
Jak1_Y1022/3	0.89980639	0.10019361	-1.2069889
Jak3_Y981	0.88907428	0.11092572	-1.1515821
CSFR_Y561	0.87824703	0.12175297	-1.0596644
SOD1_S98	0.87199408	0.12800592	-1.1027865
Nik_T559	0.86490083	0.13509917	-1.0976635
Jak2_Y1007/8	0.85725584	0.14274416	-1.1114292
ROCK2_S1134/7	0.85674812	0.14325188	-1.0740553
LEF-1_S166	0.85506734	0.14493266	-1.0554814

ASK1_S966	0.84846337	0.15153663	-1.1258864
Cdc25A_S82	0.84471739	0.15528261	-1.1263066
IGF1R_Y1166	0.84241423	0.15758577	-1.092254
PDGFRb_Y740	0.83743769	0.16256231	-1.0873279
NFAT4_S163/5	0.83716892	0.16283108	-1.1191001
PKCA_T637	0.83591377	0.16408623	-1.101971
Notch-2_S2070	0.82321363	0.17678637	-1.0729412
CCR7_T372/3/4/5/7	0.81153847	0.18846153	-1.0773104
FGFR3_Y760	0.80874106	0.19125894	-1.1098933
HIF2A_T840	0.80848294	0.19151706	-1.0672158
RAC1_S71	0.80786718	0.19213282	-1.0913569

Table S1: Differential peptides from MAP kinome identified by one-sided paired *t*-test. The 200 consistently phosphorylated peptides identified by the *F*-tests were subjected to one-sided paired *t*-test to identify significantly phosphorylated or dephosphorylated peptides in treatments IFN, MAP+IFN, and MAP relative to the Mono control (no treatment). For each of these peptides, the responses from all three animals were pooled to increase the statistical confidence. Only the peptides with *p*-values less than 0.20 are shown here. The first column contains the common names of the corresponding proteins for the peptides and the phosphorylation sites separated by underscores. The second column includes the *p*-values for increased phosphorylation of the peptide relative to control. The third column includes the *p*-values for decreased phosphorylation of the peptide relative to control. The fourth column includes the phosphorylation fold change relative to control.

	IFN+MAP vs Mono			IFN vs Mono			MAP vs Mono		
	<i>p</i> up	<i>p</i> down	FC	<i>p</i> up	<i>p</i> down	FC	<i>p</i> up	<i>P</i> down	FC
4E-BP1_T37	0.36	0.64	1.05	0.74	0.26	-1.07	0.74	0.26	-1.10
4E-BP1_T46	0.07	0.93	1.23	0.44	0.56	1.01	0.23	0.77	1.10
ADCY8_Y406	0.78	0.22	-1.09	0.99	0.01	-1.10	0.60	0.40	-1.03
Akt1_T308	0.79	0.21	-1.08	0.95	0.05	-1.15	0.94	0.06	-1.16
Akt1_S473	0.44	0.56	1.02	0.62	0.38	-1.02	0.70	0.30	-1.04
Akt1_S124/9	0.51	0.49	-1.01	0.61	0.39	-1.04	0.55	0.45	-1.02
Akt1_Y326	0.18	0.82	1.16	0.03	0.97	1.30	0.01	0.99	1.38
Akt3_S120	0.40	0.60	1.03	0.46	0.54	1.01	0.66	0.34	-1.04
Akt3_T447	0.26	0.74	1.15	0.11	0.89	1.17	0.36	0.64	1.05
APE1_S289	0.94	0.06	-1.25	0.85	0.15	-1.19	0.97	0.03	-1.32
Aplp1_Y643	0.88	0.12	-1.33	0.16	0.84	1.10	0.39	0.61	1.03
ApoE_S314	0.49	0.51	1.00	1.00	0.00	-1.27	0.59	0.41	-1.04
A-Raf_Y301	0.25	0.75	1.09	0.28	0.72	1.02	0.48	0.52	1.00
ASK1_S1033	0.74	0.26	-1.08	0.99	0.01	-1.23	0.64	0.36	-1.03

ASK1_S83	0.71	0.29	-1.07	0.99	0.01	-1.24	0.95	0.05	-1.16
ASK1_S966	0.85	0.15	-1.17	0.27	0.73	1.06	0.85	0.15	-1.13
ATF-2_S44	0.38	0.62	1.05	0.40	0.60	1.02	0.19	0.81	1.10
ATF-2_T51/3/5	0.53	0.47	-1.02	0.05	0.95	1.17	0.05	0.95	1.30
ATF-4_S245	0.54	0.46	-1.03	0.03	0.97	1.39	0.05	0.95	1.60
axin-1_S486	0.70	0.30	-1.05	0.52	0.48	-1.00	0.46	0.54	1.01
Bad_S118	0.03	0.97	1.26	0.07	0.93	1.14	0.10	0.90	1.15
BATF_T48	0.97	0.03	-1.21	0.79	0.21	-1.08	0.71	0.29	-1.07
BCAP_Y17	0.69	0.31	-1.06	0.91	0.09	-1.11	0.94	0.06	-1.16
BCAP_Y281	0.38	0.62	1.03	0.11	0.89	1.10	0.27	0.73	1.03
Bcl-2_S70	0.47	0.53	1.03	0.04	0.96	1.26	0.01	0.99	1.68
Bcl-2_T56	0.42	0.58	1.04	0.42	0.58	1.02	0.03	0.97	1.35
Bid_T59	0.52	0.48	-1.01	0.95	0.05	-1.12	0.93	0.07	-1.11
BLNK_Y72	0.34	0.66	1.04	0.25	0.75	1.04	0.67	0.33	-1.03
BLNK_Y96	0.79	0.21	-1.10	0.13	0.87	1.10	0.70	0.30	-1.04
B-Raf_T598	0.59	0.41	-1.04	0.17	0.83	1.09	0.28	0.72	1.09
Btk_Y223	0.49	0.51	1.00	0.06	0.94	1.16	0.02	0.98	1.30
Btk_Y551	0.25	0.75	1.08	0.07	0.93	1.11	0.22	0.78	1.08
Calmodulin_Y99	0.12	0.88	1.14	0.53	0.47	-1.01	0.64	0.36	-1.02
CaMK2-alpha_T286	0.76	0.24	-1.09	0.13	0.87	1.20	0.31	0.69	1.07
Casp3_S150	0.88	0.12	-1.10	0.41	0.59	1.01	0.07	0.93	1.14
Casp8_S347	0.94	0.06	-1.18	0.15	0.85	1.08	0.51	0.49	-1.00
caveolin-1_Y14	0.58	0.42	-1.01	0.93	0.07	-1.13	1.00	0.00	-1.21
Cbl_Y371	0.80	0.20	-1.14	0.91	0.09	-1.11	0.90	0.10	-1.14
CBP_S2063	0.74	0.26	-1.09	0.02	0.98	1.20	0.54	0.46	-1.01
CCR2_Y139	0.53	0.47	-1.01	0.31	0.69	1.09	0.30	0.70	1.10
CCR5_S336/7	0.89	0.11	-1.15	0.84	0.16	-1.12	0.96	0.04	-1.32
CCR7_S356/7	0.82	0.18	-1.19	0.83	0.17	-1.13	0.76	0.24	-1.14
CCR7_T372/3/4/5/7	0.78	0.22	-1.07	0.87	0.13	-1.11	0.81	0.19	-1.08
CD28_Y206/9	0.28	0.72	1.08	0.40	0.60	1.02	0.27	0.73	1.11
CD45_S999/02/03	0.27	0.73	1.14	0.94	0.06	-1.16	0.99	0.01	-1.22
CD45_Y1216	0.49	0.51	1.00	0.95	0.05	-1.17	0.81	0.19	-1.09
Cdc25A_S82	0.27	0.73	1.09	0.69	0.31	-1.05	0.84	0.16	-1.13
Cdc25A_S88	0.60	0.40	-1.05	0.21	0.79	1.11	0.66	0.34	-1.05
Cdc42_Y64	0.76	0.24	-1.07	1.00	0.00	-1.23	0.98	0.02	-1.24
CDK2_T14/5	0.20	0.80	1.14	0.17	0.83	1.13	0.14	0.86	1.17
CDK2_T160	0.39	0.61	1.03	0.24	0.76	1.10	0.09	0.91	1.19
CDK7_T170	0.15	0.85	1.12	0.29	0.71	1.06	0.00	1.00	1.25
Cot_S400	0.88	0.12	-1.18	0.34	0.66	1.07	0.64	0.36	-1.08
CREB_S110/1	0.22	0.78	1.07	0.94	0.06	-1.11	0.69	0.31	-1.03
CREB_S129	0.58	0.42	-1.02	0.94	0.06	-1.12	0.98	0.02	-1.14

Crk_Y221	0.15	0.85	1.06	0.87	0.13	-1.08	0.91	0.09	-1.10
CSFR_Y561	0.24	0.76	1.04	0.81	0.19	-1.06	0.88	0.12	-1.06
CSFR_Y809	0.23	0.77	1.07	0.76	0.24	-1.04	0.11	0.89	1.07
CSK_Y184	0.03	0.97	1.25	0.06	0.94	1.15	0.00	1.00	1.19
CTLA-4_Y201	0.70	0.30	-1.08	0.36	0.64	1.05	0.39	0.61	1.04
CTNNB1_S675	0.22	0.78	1.04	0.90	0.10	-1.12	0.98	0.02	-1.20
CTNNB1_T41/45	0.15	0.85	1.23	0.13	0.87	1.11	0.05	0.95	1.21
CTNNB1_Y142	0.09	0.91	1.32	0.26	0.74	1.04	0.06	0.94	1.17
CTSB_Y219	0.13	0.87	1.21	0.36	0.64	1.03	0.44	0.56	1.02
CXCR4_Y157	0.22	0.78	1.13	0.25	0.75	1.11	0.23	0.77	1.13
cyclinD1_T286/8	0.41	0.59	1.03	0.34	0.66	1.05	0.35	0.65	1.05
cyclinE1_T395	0.35	0.65	1.14	0.30	0.70	1.07	0.03	0.97	1.66
CystatinS_S132	0.29	0.71	1.10	0.91	0.09	-1.12	0.54	0.46	-1.02
DAPK1_S308	0.93	0.07	-1.25	0.99	0.01	-1.24	0.98	0.02	-1.40
DAPK1_S735	0.31	0.69	1.11	0.87	0.13	-1.11	0.37	0.63	1.09
DAPK3_T180	0.56	0.44	-1.02	0.33	0.67	1.03	0.75	0.25	-1.06
DAPK3_T225	0.00	1.00	1.35	0.37	0.63	1.02	0.00	1.00	1.21
DAPP1_Y139	0.50	0.50	-1.00	0.06	0.94	1.16	0.38	0.62	1.05
Daxx_S668/71	0.54	0.46	-1.02	0.51	0.49	-1.01	0.11	0.89	1.40
DNA-PK_T2609	0.50	0.50	1.00	0.19	0.81	1.11	0.42	0.58	1.02
DNA-PK_T2638	0.48	0.52	1.01	0.43	0.57	1.02	0.09	0.91	1.19
Elk-1_S389	0.88	0.12	-1.11	0.32	0.68	1.05	0.31	0.69	1.07
Elk-1_T417	0.57	0.43	-1.03	0.04	0.96	1.28	0.34	0.66	1.07
eNOS_S1176	0.33	0.67	1.07	0.13	0.87	1.09	0.04	0.96	1.35
EphA1_Y781	0.24	0.76	1.09	0.59	0.41	-1.02	0.51	0.49	-1.00
EphA2_Y588	0.17	0.83	1.17	0.05	0.95	1.25	0.19	0.81	1.15
EphA2_Y594	0.17	0.83	1.09	0.30	0.70	1.02	0.54	0.46	-1.01
EphA2_Y772	0.04	0.96	1.18	0.19	0.81	1.09	0.20	0.80	1.18
ERK1_T202/4	0.70	0.30	-1.07	0.40	0.60	1.02	0.62	0.38	-1.02
ERK2_Y205	0.98	0.02	-1.10	0.09	0.91	1.13	0.37	0.63	1.03
ERK3_S189	0.96	0.04	-1.17	0.09	0.91	1.23	0.32	0.68	1.07
Etk_Y40	0.12	0.88	1.14	0.02	0.98	1.13	0.03	0.97	1.20
Ezrin_T566	0.45	0.55	1.01	0.95	0.05	-1.26	0.62	0.38	-1.03
FADD_S194	0.40	0.60	1.02	0.09	0.91	1.10	0.34	0.66	1.03
FADD_NA	0.11	0.89	1.09	0.98	0.02	-1.22	0.51	0.49	-1.00
FAK_Y397	0.42	0.58	1.02	0.60	0.40	-1.01	0.63	0.37	-1.03
Fas_Y232	0.52	0.48	-1.01	0.99	0.01	-1.16	0.91	0.09	-1.18
Fas_Y291	0.87	0.13	-1.19	0.81	0.19	-1.11	0.43	0.57	1.02
Fes_Y713	0.57	0.43	-1.01	1.00	0.00	-1.28	0.99	0.01	-1.11
FGFR1_Y154	0.51	0.49	-1.00	0.36	0.64	1.02	0.09	0.91	1.23
FGFR1_Y463	0.45	0.55	1.01	0.99	0.01	-1.17	0.67	0.33	-1.04

FGFR1_Y653/4	0.30	0.70	1.07	0.44	0.56	1.01	0.36	0.64	1.03
FGFR3_Y724	0.21	0.79	1.09	0.50	0.50	1.00	0.27	0.73	1.04
FGFR3_Y760	0.75	0.25	-1.11	0.70	0.30	-1.06	0.81	0.19	-1.11
FGFR4_Y754	0.81	0.19	-1.14	0.62	0.38	-1.02	0.67	0.33	-1.05
FLGE_ECOLI_NA	0.15	0.85	1.10	0.70	0.30	-1.04	0.99	0.01	-1.13
FLT3_Y589/91	0.47	0.53	1.01	0.43	0.57	1.03	0.50	0.50	-1.00
FLT3_Y597/9	0.38	0.62	1.04	0.76	0.24	-1.05	0.45	0.55	1.02
Fos_T232	0.67	0.33	-1.05	0.11	0.89	1.15	0.59	0.41	-1.03
FRS2_Y196	0.48	0.52	1.01	0.55	0.45	-1.01	0.60	0.40	-1.02
FRS2_Y436	0.88	0.12	-1.15	0.91	0.09	-1.18	0.91	0.09	-1.18
FRS3_Y416	0.61	0.39	-1.04	0.86	0.14	-1.13	0.95	0.05	-1.21
Fyn_Y420	0.46	0.54	1.00	0.64	0.36	-1.02	0.76	0.24	-1.03
Fyn_Y531	0.27	0.73	1.04	0.96	0.04	-1.16	1.00	0.00	-1.15
GCAP2_S200	0.74	0.26	-1.12	0.10	0.90	1.10	0.09	0.91	1.22
gp130_S782	0.33	0.67	1.04	0.14	0.86	1.14	0.36	0.64	1.04
gp130_Y767	0.35	0.65	1.06	0.17	0.83	1.15	0.16	0.84	1.17
gp130_Y814	0.36	0.64	1.03	0.45	0.55	1.01	0.22	0.78	1.09
Grb10_S150	0.72	0.28	-1.06	0.15	0.85	1.09	0.66	0.34	-1.04
Grb2_Y209	0.58	0.42	-1.03	0.69	0.31	-1.04	0.37	0.63	1.06
GSK3-beta_S9	0.65	0.35	-1.05	0.07	0.93	1.28	0.00	1.00	1.27
GSK3-beta_Y216	0.55	0.45	-1.02	0.04	0.96	1.15	0.31	0.69	1.06
HIF1A_T796	0.35	0.65	1.04	0.60	0.40	-1.02	0.89	0.11	-1.13
HIF2A_T840	0.66	0.34	-1.05	0.54	0.46	-1.01	0.81	0.19	-1.07
HMGA1_T52	0.34	0.66	1.09	0.09	0.91	1.09	0.07	0.93	1.23
H-Ras-1_T35	0.72	0.28	-1.07	0.98	0.02	-1.25	0.96	0.04	-1.22
HSP27_S78/82/3	0.64	0.36	-1.07	0.19	0.81	1.12	0.12	0.88	1.19
HSP60_Y227	0.16	0.84	1.11	0.95	0.05	-1.11	0.31	0.69	1.04
HSP70_Y525/6	0.12	0.88	1.13	0.15	0.85	1.09	0.28	0.72	1.06
IFNAR1_S535	0.59	0.41	-1.04	0.75	0.25	-1.07	0.72	0.28	-1.07
IFNAR1_Y466	0.77	0.23	-1.17	0.04	0.96	1.14	0.33	0.67	1.07
IFNGR1_Y457	0.73	0.27	-1.07	0.26	0.74	1.09	0.57	0.43	-1.02
IFNGR1_Y479	0.53	0.47	-1.01	0.24	0.76	1.08	0.20	0.80	1.09
IGF1R_Y1166	0.88	0.12	-1.15	0.28	0.72	1.07	0.84	0.16	-1.09
IkB-alpha_S32/36	0.41	0.59	1.03	0.99	0.01	-1.21	1.00	0.00	-1.32
IkB-alpha_Y42	0.60	0.40	-1.03	0.89	0.11	-1.12	0.75	0.25	-1.05
IkB-beta_S313/15	0.09	0.91	1.19	0.64	0.36	-1.02	0.89	0.11	-1.06
IkB-beta_T19/23	0.68	0.32	-1.07	0.68	0.32	-1.03	0.99	0.01	-1.12
IKK-alpha_T23	0.22	0.78	1.07	0.66	0.34	-1.03	0.74	0.26	-1.04
IKK-beta_Y188	0.73	0.27	-1.08	0.16	0.84	1.10	0.32	0.68	1.06
IKK-beta_Y199	0.27	0.73	1.07	0.09	0.91	1.22	0.09	0.91	1.21
IKK-gamma_S31	0.29	0.71	1.22	0.00	1.00	1.37	0.02	0.98	2.00

IKK-gamma_S43	0.33	0.67	1.06	0.23	0.77	1.07	0.30	0.70	1.07
IL-10R-A_Y496	0.85	0.15	-1.14	0.19	0.81	1.11	0.65	0.35	-1.07
IL-16_S143/4	0.16	0.84	1.17	0.10	0.90	1.20	0.17	0.83	1.19
IL1A_S87	0.24	0.76	1.15	0.15	0.85	1.14	0.30	0.70	1.12
IL2RB_Y364	0.82	0.18	-1.12	0.31	0.69	1.05	0.70	0.30	-1.09
IL2RB_Y536	0.73	0.27	-1.09	0.24	0.76	1.10	0.48	0.52	1.01
IL4R_Y713	0.31	0.69	1.08	0.14	0.86	1.16	0.39	0.61	1.05
IL7R_Y449	0.18	0.82	1.16	0.07	0.93	1.16	0.18	0.82	1.18
IL-8R-B_S347	0.45	0.55	1.01	0.93	0.07	-1.12	0.75	0.25	-1.05
IL-8R-B_S351/2/3	0.77	0.23	-1.07	0.97	0.03	-1.15	0.51	0.49	-1.00
iNOS_S739	0.82	0.18	-1.10	1.00	0.00	-1.24	0.96	0.04	-1.24
iNOS_S909	0.70	0.30	-1.08	0.98	0.02	-1.20	0.97	0.03	-1.25
iNOS_Y151	0.91	0.09	-1.18	0.97	0.03	-1.26	1.00	0.00	-1.43
IRAK1_S376	0.47	0.53	1.03	0.30	0.70	1.05	0.02	0.98	1.54
IRAK1_S568	0.56	0.44	-1.03	0.80	0.20	-1.09	0.22	0.78	1.10
IRAK1_T100	0.75	0.25	-1.13	0.03	0.97	1.20	0.01	0.99	1.26
IRAK1_T209	0.27	0.73	1.08	0.72	0.28	-1.04	0.49	0.51	1.00
IRAK1_T387	0.69	0.31	-1.07	0.55	0.45	-1.01	0.27	0.73	1.06
IRF-3_S385/6	0.52	0.48	-1.00	0.10	0.90	1.12	0.38	0.62	1.03
IRF-3_S396/8	0.49	0.51	1.00	0.26	0.74	1.05	0.43	0.57	1.02
IRF-3_S402/5	0.52	0.48	-1.00	0.20	0.80	1.05	0.22	0.78	1.07
IRF-5_S437	0.33	0.67	1.04	0.01	0.99	1.12	0.14	0.86	1.10
ITK_Y512	0.43	0.57	1.02	0.63	0.37	-1.02	0.53	0.47	-1.01
Jak1_Y1022/3	0.88	0.12	-1.16	0.42	0.58	1.03	0.90	0.10	-1.21
Jak2_Y1007/8	0.78	0.22	-1.08	0.56	0.44	-1.01	0.86	0.14	-1.11
Jak3_Y981	0.98	0.02	-1.27	0.64	0.36	-1.02	0.89	0.11	-1.15
JIP1_T103	0.48	0.52	1.01	0.99	0.01	-1.15	0.90	0.10	-1.12
JNK1_NA	0.72	0.28	-1.10	0.93	0.07	-1.15	0.26	0.74	1.11
JNK1_S377	0.38	0.62	1.05	0.19	0.81	1.15	0.06	0.94	1.16
JNK2_S129	0.69	0.31	-1.07	0.69	0.31	-1.05	0.12	0.88	1.18
JNK2_T404/7	0.19	0.81	1.07	0.48	0.52	1.00	0.32	0.68	1.04
JNK3_T131	0.22	0.78	1.09	0.92	0.08	-1.12	0.46	0.54	1.01
Jun_S63	0.76	0.24	-1.08	0.06	0.94	1.33	0.38	0.62	1.06
Jun_S73	0.61	0.39	-1.04	0.40	0.60	1.04	0.63	0.37	-1.05
Kit_S821	0.86	0.14	-1.14	0.74	0.26	-1.09	0.99	0.01	-1.31
Kit_Y721	0.18	0.82	1.10	0.29	0.71	1.04	0.56	0.44	-1.01
LEF-1_S166	0.91	0.09	-1.16	0.81	0.19	-1.05	0.86	0.14	-1.06
LEF-1_T155	0.20	0.80	1.13	0.25	0.75	1.07	0.22	0.78	1.12
LRRFIP1_S497	0.77	0.23	-1.05	0.81	0.19	-1.06	0.53	0.47	-1.00
LRRFIP1_S690	0.17	0.83	1.05	0.55	0.45	-1.01	0.52	0.48	-1.00
Lyn_Y507	0.28	0.72	1.07	0.93	0.07	-1.15	0.72	0.28	-1.07

MEK1_S217	0.93	0.07	-1.25	0.43	0.57	1.02	0.62	0.38	-1.03
MEK2_Y216	0.28	0.72	1.13	0.06	0.94	1.33	0.01	0.99	1.43
MEK5_S311/15	0.62	0.38	-1.05	0.74	0.26	-1.08	0.66	0.34	-1.06
MEKK1_T1383	0.45	0.55	1.01	0.63	0.37	-1.03	0.87	0.13	-1.11
Met_Y1234/5	0.17	0.83	1.14	0.45	0.55	1.01	0.42	0.58	1.02
Met_Y1349	0.44	0.56	1.03	0.23	0.77	1.07	0.42	0.58	1.03
MKP-1_S296	0.66	0.34	-1.12	0.70	0.30	-1.04	0.12	0.88	1.22
MKP-1_S323	0.22	0.78	1.11	0.09	0.91	1.17	0.12	0.88	1.16
MKP-1_S359	0.93	0.07	-1.13	0.05	0.95	1.33	0.22	0.78	1.11
MLK3_NA	0.42	0.58	1.05	0.80	0.20	-1.11	0.07	0.93	1.35
Mos_S25	0.91	0.09	-1.32	0.63	0.37	-1.04	0.97	0.03	-1.21
MSK1_T581	0.80	0.20	-1.14	0.92	0.08	-1.10	0.97	0.03	-1.25
MSK2_S196	0.60	0.40	-1.03	0.99	0.01	-1.16	0.98	0.02	-1.24
MSK2_S347	0.35	0.65	1.05	0.93	0.07	-1.06	0.90	0.10	-1.12
mucin-1_T1224/7/9	0.37	0.63	1.04	0.96	0.04	-1.17	0.73	0.27	-1.07
NFAT1_S168	0.87	0.13	-1.17	0.30	0.70	1.05	0.87	0.13	-1.14
NFAT1_S326	0.45	0.55	1.02	0.05	0.95	1.15	0.03	0.97	1.28
NFAT2_S294	0.05	0.95	1.14	0.14	0.86	1.14	0.03	0.97	1.20
NFAT4_S163/5	0.56	0.44	-1.02	0.77	0.23	-1.10	0.84	0.16	-1.12
NFkB-p100_S865	0.16	0.84	1.21	0.09	0.91	1.12	0.03	0.97	1.31
NFkB-p100_S869/71	0.61	0.39	-1.05	0.73	0.27	-1.12	0.67	0.33	-1.07
NFkB-p105_S337	0.38	0.62	1.05	0.04	0.96	1.21	0.04	0.96	1.20
NFkB-p105_S907	0.33	0.67	1.09	0.20	0.80	1.11	0.19	0.81	1.15
NFkB-p65_S276	0.28	0.72	1.15	0.00	1.00	1.23	0.05	0.95	1.28
NFkB-p65_S311	0.63	0.37	-1.07	0.02	0.98	1.26	0.11	0.89	1.28
NFkB-p65_S536	0.40	0.60	1.04	0.23	0.77	1.07	0.13	0.87	1.11
NGFR_Y336	0.73	0.27	-1.08	0.40	0.60	1.03	0.48	0.52	1.01
Nik_T559	0.49	0.51	1.00	0.39	0.61	1.02	0.86	0.14	-1.10
Notch-2_S2070	0.58	0.42	-1.02	0.70	0.30	-1.05	0.82	0.18	-1.07
Notch-2_T1808	0.55	0.45	-1.01	0.42	0.58	1.02	0.73	0.27	-1.07
p300_S1834	0.06	0.94	1.21	0.10	0.90	1.07	0.00	1.00	1.30
p300_S893	0.45	0.55	1.05	0.05	0.95	1.13	0.05	0.95	1.60
P38-gamma_T183/5	0.23	0.77	1.09	0.51	0.49	-1.00	0.03	0.97	1.19
p38-alpha_T180/2	0.30	0.70	1.07	0.09	0.91	1.10	0.19	0.81	1.08
p38-alpha_Y323	0.22	0.78	1.11	0.67	0.33	-1.03	0.86	0.14	-1.12
p40phox_T154	0.62	0.38	-1.05	0.73	0.27	-1.06	0.59	0.41	-1.04
p47phox_S370	0.50	0.50	-1.00	0.45	0.55	1.01	0.04	0.96	1.46
p53_S215	0.67	0.33	-1.06	0.96	0.04	-1.27	0.88	0.12	-1.12
p53_S6/9	0.24	0.76	1.06	0.95	0.05	-1.14	0.98	0.02	-1.13

p70S6Kb_S473/4	0.30	0.70	1.06	0.83	0.17	-1.09	0.47	0.53	1.01
PDGFRb_Y579/81	0.18	0.82	1.14	0.11	0.89	1.10	0.24	0.76	1.07
PDGFRb_Y740	0.28	0.72	1.08	0.59	0.41	-1.01	0.84	0.16	-1.09
PIK3R1_S608/7	0.61	0.39	-1.04	0.65	0.35	-1.04	0.92	0.08	-1.16
PKACa_S338	0.28	0.72	1.08	0.25	0.75	1.08	0.45	0.55	1.02
PKACa_T195/7	0.12	0.88	1.17	0.03	0.97	1.17	0.14	0.86	1.14
PKCA_S656	0.79	0.21	-1.09	0.96	0.04	-1.22	1.00	0.00	-1.34
PKCA_T637	0.73	0.27	-1.08	1.00	0.00	-1.23	0.84	0.16	-1.10
PKCB_S15/T16	0.36	0.64	1.07	0.84	0.16	-1.11	0.39	0.61	1.06
PKCB_T323	0.12	0.88	1.19	0.73	0.27	-1.08	0.50	0.50	1.00
PKCE_S729	0.90	0.10	-1.18	0.96	0.04	-1.21	0.75	0.25	-1.09
PKCE_T710	0.28	0.72	1.09	0.58	0.42	-1.01	0.16	0.84	1.16
PKCT_T219	0.58	0.42	-1.03	0.94	0.06	-1.16	0.74	0.26	-1.10
PKCT_Y90	0.91	0.09	-1.19	1.00	0.00	-1.29	0.98	0.02	-1.39
PKG1_T58	0.81	0.19	-1.15	0.93	0.07	-1.22	0.47	0.53	1.01
PKR_T446	0.05	0.95	1.37	0.18	0.82	1.09	0.12	0.88	1.21
PKR_T451	0.53	0.47	-1.01	0.16	0.84	1.08	0.46	0.54	1.01
PLCB1_S887	0.44	0.56	1.03	0.08	0.92	1.10	0.15	0.85	1.13
PLCB1_S887	0.21	0.79	1.20	0.37	0.63	1.04	0.22	0.78	1.15
PLCG1_Y472	0.51	0.49	-1.00	0.41	0.59	1.02	0.57	0.43	-1.02
PLCG1_Y771	0.71	0.29	-1.06	0.95	0.05	-1.10	0.92	0.08	-1.14
PLCG1_Y783	0.62	0.38	-1.04	0.02	0.98	1.14	0.05	0.95	1.17
PPARG_S112	0.46	0.54	1.01	0.95	0.05	-1.13	0.97	0.03	-1.15
PPP2CA_T304/7	1.00	0.00	-1.73	0.98	0.02	-1.33	1.00	0.00	-1.78
PTP1B_S50	0.76	0.24	-1.18	0.08	0.92	1.15	0.06	0.94	1.30
PXN_Y31	0.24	0.76	1.10	0.10	0.90	1.12	0.09	0.91	1.09
Pyk2_Y402	0.46	0.54	1.02	0.24	0.76	1.09	0.53	0.47	-1.01
RAC1_S71	0.37	0.63	1.04	0.44	0.56	1.01	0.81	0.19	-1.09
Raf1_S259	0.70	0.30	-1.06	0.99	0.01	-1.35	0.34	0.66	1.06
Raf1_S499	0.25	0.75	1.05	0.98	0.02	-1.19	0.38	0.62	1.02
RasGAP_Y460	0.76	0.24	-1.09	0.98	0.02	-1.11	0.99	0.01	-1.12
Rb_S780	0.23	0.77	1.11	0.24	0.76	1.08	0.05	0.95	1.32
Rb_S795	0.29	0.71	1.08	0.30	0.70	1.02	0.09	0.91	1.18
RBL2_SYMSP_NA	0.27	0.73	1.05	1.00	0.00	-1.18	0.69	0.31	-1.03
RelB_S573	0.54	0.46	-1.01	0.04	0.96	1.20	0.51	0.49	-1.00
RhoA_S188	0.46	0.54	1.02	0.09	0.91	1.30	0.20	0.80	1.21
RIPK1_Y384/7/9	0.13	0.87	1.17	0.02	0.98	1.29	0.01	0.99	1.38
ROCK2_S1134/7	0.59	0.41	-1.02	0.70	0.30	-1.07	0.86	0.14	-1.07
SEK1_S257/0	0.44	0.56	1.01	0.19	0.81	1.08	0.55	0.45	-1.01
SEK1_S80	0.41	0.59	1.04	0.30	0.70	1.10	0.35	0.65	1.07
Shc1_Y349/0	0.52	0.48	-1.01	0.97	0.03	-1.16	0.92	0.08	-1.10

Smad1_S462/3/5	0.28	0.72	1.16	0.04	0.96	1.22	0.04	0.96	1.48
Smad2_S255	0.27	0.73	1.10	0.04	0.96	1.23	0.16	0.84	1.18
Smad2_T8	0.52	0.48	-1.01	0.04	0.96	1.33	0.08	0.92	1.38
Smad3_S208	0.15	0.85	1.16	0.01	0.99	1.24	0.02	0.98	1.49
Smad3_S422/3/5	0.32	0.68	1.11	0.12	0.88	1.12	0.01	0.99	1.30
smMLCK_S1773	0.33	0.67	1.07	0.35	0.65	1.05	0.11	0.89	1.10
SOD1_S98	0.71	0.29	-1.07	0.73	0.27	-1.05	0.87	0.13	-1.10
Src_S74	0.30	0.70	1.04	0.94	0.06	-1.13	0.58	0.42	-1.01
Src_S96	0.57	0.43	-1.03	0.61	0.39	-1.03	0.78	0.22	-1.11
SRF_S77/79	0.07	0.93	1.12	0.95	0.05	-1.10	1.00	0.00	-1.12
STAT1_S727	0.21	0.79	1.09	0.28	0.72	1.05	0.60	0.40	-1.03
STAT1_Y701	0.14	0.86	1.20	0.08	0.92	1.22	0.01	0.99	1.35
STAT2_Y690	0.92	0.08	-1.15	0.06	0.94	1.13	0.39	0.61	1.04
STAT3_S727	0.54	0.46	-1.02	0.03	0.97	1.36	0.25	0.75	1.09
STAT3_Y705	0.84	0.16	-1.12	0.05	0.95	1.16	0.28	0.72	1.09
STAT4_S721	0.66	0.34	-1.06	0.09	0.91	1.17	0.81	0.19	-1.15
STAT4_Y693	0.45	0.55	1.02	0.07	0.93	1.26	0.17	0.83	1.18
STAT5B_S731	0.47	0.53	1.01	0.45	0.55	1.02	0.68	0.32	-1.06
STAT5B_Y699	0.49	0.51	1.00	0.05	0.95	1.14	0.07	0.93	1.15
STAT6_Y641	0.86	0.14	-1.40	0.00	1.00	1.22	0.11	0.89	1.25
STMN1_S15	0.79	0.21	-1.07	0.41	0.59	1.02	0.41	0.59	1.03
STMN1_S62	0.35	0.65	1.05	0.18	0.82	1.16	0.01	0.99	1.35
Syk_Y525/6	0.65	0.35	-1.04	0.10	0.90	1.12	0.24	0.76	1.06
TAK1_S192	0.21	0.79	1.18	0.28	0.72	1.08	0.00	1.00	1.48
TAK1_T184	0.33	0.67	1.04	0.03	0.97	1.12	0.16	0.84	1.09
TBK1_S172	0.62	0.38	-1.04	0.78	0.22	-1.06	0.76	0.24	-1.08
TNF-R1_S274	0.58	0.42	-1.02	0.99	0.01	-1.19	0.79	0.21	-1.11
TNFRSF5_T254	0.65	0.35	-1.05	0.96	0.04	-1.09	0.97	0.03	-1.16
TNIK_S764	0.82	0.18	-1.14	1.00	0.00	-1.35	0.80	0.20	-1.10
TNIK_T987	0.78	0.22	-1.09	1.00	0.00	-1.26	1.00	0.00	-1.41
TPH1_S58	0.99	0.01	-1.41	0.97	0.03	-1.24	0.98	0.02	-1.30
TrkB_Y706/7	0.12	0.88	1.15	0.12	0.88	1.08	0.05	0.95	1.16
TrkC_Y516	0.35	0.65	1.08	0.41	0.59	1.03	0.12	0.88	1.25
Tyk2_Y1054/5	0.57	0.43	-1.03	0.15	0.85	1.04	0.55	0.45	-1.02
VASP_S156	0.30	0.70	1.14	0.66	0.34	-1.07	0.15	0.85	1.32
VEGFR-1_Y1169	0.82	0.18	-1.20	0.46	0.54	1.01	0.76	0.24	-1.12
VEGFR-2_Y1214	0.51	0.49	-1.00	0.01	0.99	1.21	0.53	0.47	-1.01
VEGFR3_Y1265	0.94	0.06	-1.18	0.88	0.12	-1.08	0.58	0.42	-1.02
VEGFR3_Y130/1	0.56	0.44	-1.04	0.03	0.97	1.36	0.42	0.58	1.04
VIM_S39	0.20	0.80	1.08	0.95	0.05	-1.15	0.45	0.55	1.02
WASP_Y291	0.79	0.21	-1.08	0.19	0.81	1.06	0.63	0.37	-1.03

XIAP_S87	0.83	0.17	-1.12	0.02	0.98	1.15	0.31	0.69	1.05
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Table S2: Complete data set of peptides from MAP kinome. Table shows kinome results from IFN, MAP+IFN, and MAP relative to the Mono control (no treatment). For each of these peptides, the responses from all three animals were pooled to increase the statistical confidence. The *p* up columns indicate confidence of increased phosphorylation relative to control, *p* down columns indicate confidence of decreased phosphorylation relative to control and FC indicates the relative fold change of phosphorylation relative to control.

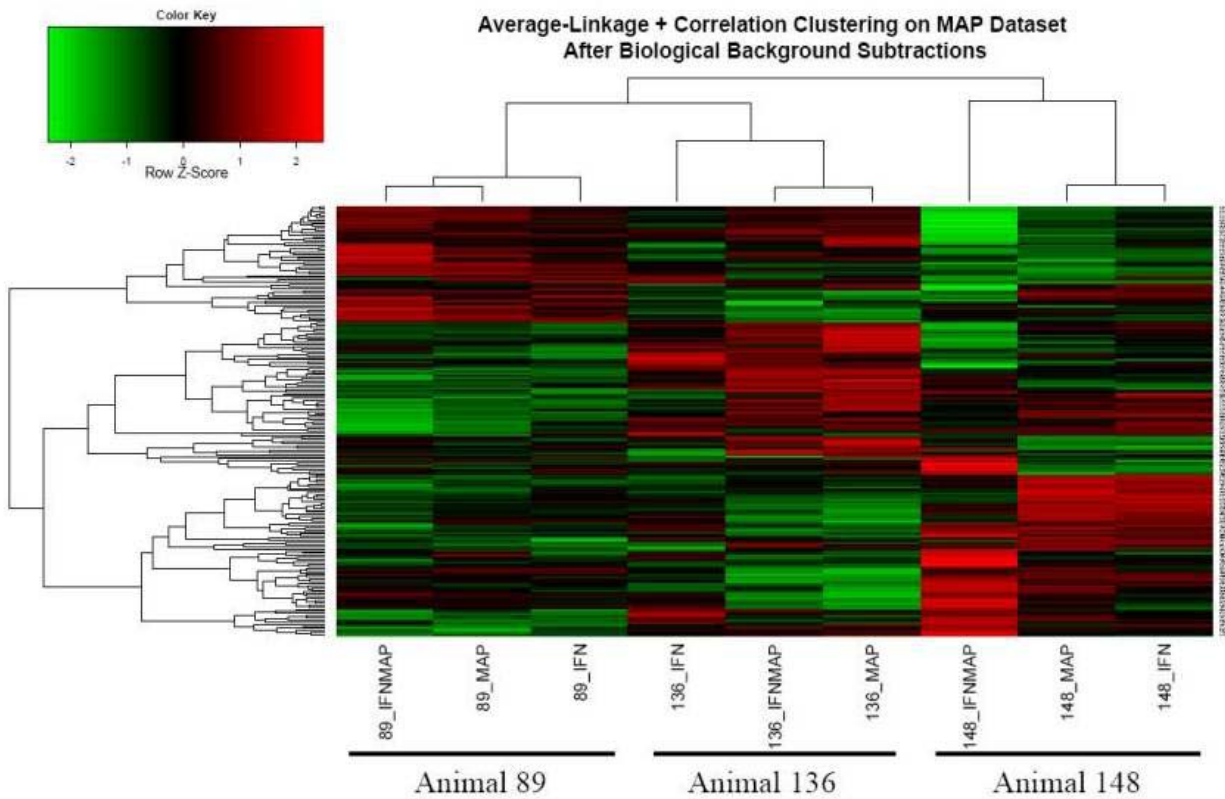


Figure S1: Clustering and Heat Map of Kinome Data. Kinome data sets were subjected to hierarchical clustering analysis. “Average Linkage + (1 - Pearson Correlation)” was used for clustering both the animal-treatments (in vertical direction) and the peptides (in horizontal direction). The animal codes are indicated right below the corresponding treatment names under the heat map.