

Supplementary materials

Supplementary Table 1. Fold changes in expression levels of proteins enriched in regulation of inflammatory response significantly changed by DTMP.

Protein Name	Fold Changes			p-value		
	No-SCS : No-SNI	DTMP : No-SCS	LR-SCS : No-SCS	No-SCS : No-SNI	DTMP : No-SCS	LR-SCS : No-SCS
ORM1	2.04	0.22	0.53	1.1E-03	8.9E-04	7.4E-03
SERPINA3N	1.96	0.28	0.48	6.8E-04	3.9E-04	9.9E-04
ITIH4	1.80	0.32	0.46	8.1E-07	2.8E-08	5.4E-07
C5	1.54	0.34	0.50	3.8E-07	1.0E-07	3.0E-07
LBP	1.44	0.29	0.73	2.6E-04	2.4E-04	1.6E-03
SERPINC1	1.41	0.40	0.60	3.1E-02	2.4E-03	2.0E-02
HP	1.40	0.59	0.85	1.7E-03	3.8E-04	2.0E-01
C3	1.40	0.39	0.57	3.7E-13	1.3E-28	2.9E-23
CFH	1.37	0.39	0.64	2.9E-05	1.3E-07	1.6E-05
IQGAP1	1.30	0.55	0.72	1.3E-07	1.3E-08	7.5E-07
TF	1.28	0.45	0.60	1.1E-08	4.1E-21	6.6E-15
TCIRG1	1.28	0.59	0.73	5.4E-03	1.6E-02	5.0E-02
APOE	1.27	0.53	0.58	4.7E-06	8.1E-09	5.2E-06
NG2	1.24	0.81	0.83	1.1E-04	1.4E-03	1.4E-03
CNTF	1.23	0.46	0.88	2.7E-02	9.5E-04	1.3E-01
PROTHROMBIN	1.22	0.42	0.57	3.0E-02	3.3E-05	5.9E-04
TGFBI	1.22	0.50	0.67	1.2E-01	7.8E-06	4.4E-03
ASS1	1.22	0.80	0.76	1.7E-03	5.0E-04	9.5E-04
PYCARD	1.21	0.63	1.15	1.2E-02	2.2E-03	2.6E-02
VIMENTIN	1.17	0.47	0.70	7.7E-05	1.1E-17	7.1E-06
P47PHOX	1.16	0.51	1.00	3.9E-02	6.7E-04	8.9E-01
TXNIP	1.16	0.64	0.85	1.2E-01	2.3E-02	6.6E-02
NRG1	1.15	0.46	0.60	2.0E-02	7.8E-06	3.6E-05
IP3R3	1.14	0.54	0.77	8.4E-02	2.3E-03	2.5E-02
IP3R1 iso 3	1.11	0.70	0.84	2.3E-02	3.6E-04	4.9E-03
GGT5	1.11	0.92	0.98	1.5E-01	6.6E-03	8.9E-01
SERPINA1	1.11	0.44	0.66	2.0E-01	3.9E-07	1.9E-03
A2M	1.09	0.30	0.48	1.7E-01	1.6E-06	7.4E-06
CASP3	1.08	0.74	0.88	2.3E-01	3.7E-02	3.2E-01
IP3R2	1.07	0.83	1.00	1.1E-01	7.0E-03	8.1E-01
CSRP1	1.06	0.76	0.75	2.5E-01	6.9E-03	2.0E-02
KIR4.1	1.05	1.18	0.95	4.1E-01	2.6E-02	5.9E-01
FETUA	1.04	0.47	0.59	6.5E-01	4.5E-05	1.4E-03
KLKB1	1.04	0.52	0.63	8.0E-01	1.1E-02	2.4E-02
CHI3L1 iso 2	1.03	0.43	0.72	8.0E-01	4.9E-02	1.3E-02
AIFM3	1.02	1.13	0.94	7.0E-01	3.0E-02	5.3E-01
C4A	1.02	0.66	0.98	5.7E-01	2.3E-12	8.5E-01
STAT3	1.01	0.87	1.02	8.0E-01	4.6E-02	4.2E-01
CASK	1.01	1.11	1.11	8.9E-01	1.7E-03	5.0E-02
MUG1	1.01	0.52	0.60	8.0E-01	6.6E-20	1.8E-16
HK1	1.00	1.04	0.92	8.6E-01	1.0E-02	1.1E-01

PMCA4 iso2	1.00	1.09	1.00	8.6E-01	3.3E-04	7.0E-01
SORL1	0.99	1.12	1.00	7.3E-01	1.5E-03	7.0E-01
HMGB2	0.98	0.60	0.76	5.4E-01	2.7E-02	5.2E-02
TRAF3	0.97	1.08	0.99	2.5E-01	1.2E-05	9.5E-01
NFAT90	0.96	1.09	1.00	4.2E-01	2.2E-02	7.7E-01
PRCP	0.96	1.10	1.17	6.4E-01	1.5E-03	1.3E-01
CAMK2B iso 2	0.96	1.14	1.01	1.4E-01	7.0E-06	4.5E-01
CMTFR	0.96	1.09	0.95	6.3E-01	4.1E-02	7.0E-01
SERPINB1A	0.96	1.20	1.37	6.5E-01	5.6E-03	5.5E-04
ANXA1	0.96	0.38	0.52	4.7E-01	2.2E-07	6.0E-06
CAMK2G	0.96	1.12	0.98	4.1E-01	1.3E-02	9.3E-01
HMGB1	0.95	0.86	0.92	3.2E-01	2.1E-02	1.0E-01
STMN2	0.94	1.25	1.29	4.0E-01	5.0E-02	1.0E-01
nNOS	0.94	1.15	1.13	1.7E-01	2.0E-03	4.3E-02
ITGB2	0.94	0.75	1.22	2.7E-01	1.6E-03	4.5E-03
PMCA1	0.94	1.10	1.11	7.4E-02	6.1E-04	6.8E-03
CASKIN1	0.93	1.17	1.11	1.4E-03	5.7E-07	7.6E-03
ECM1	0.92	0.58	0.77	3.3E-01	4.2E-02	1.0E-01
APP	0.92	1.06	1.08	1.6E-02	6.2E-03	3.3E-02
CAMK2D	0.92	1.16	1.10	7.8E-02	1.4E-03	7.5E-02
CLU	0.90	0.85	1.05	4.2E-02	2.2E-02	2.7E-01
PDCD8	0.87	1.19	1.08	1.6E-03	6.4E-04	4.4E-02
CAMK2A	0.85	1.24	1.17	1.2E-03	2.5E-05	3.7E-03
PTN	0.85	1.13	0.95	2.1E-01	4.3E-02	7.4E-01
SCN9A	0.82	1.27	1.42	2.6E-01	3.5E-02	2.9E-02
VDAC2	0.81	1.20	1.15	1.2E-02	3.3E-03	5.3E-02
THBS1	0.80	0.42	0.67	7.4E-04	2.6E-05	9.0E-05
S100A9	0.79	0.81	0.35	2.5E-01	3.2E-02	3.2E-03
FN1	0.78	0.37	0.67	7.4E-13	1.1E-21	4.8E-14
PF4	0.76	0.43	0.72	2.5E-02	1.3E-02	2.9E-02
VDAC1	0.74	1.29	1.24	9.2E-04	2.3E-04	7.0E-03
RAP1A	0.71	1.32	1.39	1.5E-02	2.4E-03	6.4E-03
VDAC3	0.71	1.29	1.25	2.5E-04	2.9E-04	7.3E-03
PLP1	0.70	1.34	1.26	1.2E-14	1.3E-05	1.6E-03
TAC1	0.69	1.53	2.08	2.4E-02	8.4E-03	9.3E-03
CALCA	0.67	1.94	1.84	4.6E-03	2.8E-03	9.0E-02
S100A8	0.58	0.19	0.18	7.4E-03	8.6E-03	4.9E-03
ELANE	0.52	0.27	0.39	2.3E-03	1.1E-02	1.6E-02
FGA iso 1	0.52	0.32	0.70	4.1E-16	6.7E-19	2.2E-07
CAMP	0.48	0.25	0.45	5.1E-02	4.5E-02	4.6E-02

Supplementary Table 2. Fold changes in expression levels of proteins enriched in regulation of MAPK cascade significantly changed by DTMP.

Protein Name	Fold Changes			p-value		
	No-SCS : No-SNI	DTMP : No-SCS	LR-SCS : No-SCS	No-SCS : No-SNI	DTMP : No-SCS	LR-SCS : No-SCS
C9	2.01	0.25	0.47	6.6E-06	8.3E-06	8.0E-06
C3	1.40	0.39	0.57	3.7E-13	1.3E-28	2.9E-23
ITGA1	1.39	0.70	0.74	4.0E-03	6.1E-03	3.1E-02
CD36	1.38	0.49	0.49	3.9E-02	8.8E-03	1.1E-02
SERPINF2	1.38	0.44	0.57	5.4E-02	2.6E-04	6.4E-04
FBLN1	1.37	0.36	0.72	1.8E-02	5.9E-03	4.2E-02
IQGAP1	1.30	0.55	0.72	1.3E-07	1.3E-08	7.5E-07
TF	1.28	0.45	0.60	1.1E-08	4.1E-21	6.6E-15
APOE	1.27	0.53	0.58	4.7E-06	8.1E-09	5.2E-06
NG2	1.24	0.81	0.83	1.1E-04	1.4E-03	1.4E-03
CNTF	1.23	0.46	0.88	2.7E-02	9.5E-04	1.3E-01
XDH	1.23	0.68	0.88	3.1E-02	1.3E-02	5.3E-02
PYCARD	1.21	0.63	1.15	1.2E-02	2.2E-03	2.6E-02
VINEXIN	1.20	0.78	0.86	3.4E-04	3.3E-03	8.3E-03
CD45 iso 1	1.17	0.53	0.91	2.7E-01	7.2E-03	6.1E-01
P47PHOX	1.16	0.51	1.00	3.9E-02	6.7E-04	8.9E-01
NRG1	1.15	0.46	0.60	2.0E-02	7.8E-06	3.6E-05
ROCK1	1.15	0.85	0.86	6.9E-03	1.5E-02	7.2E-02
GBA	1.13	0.88	0.90	6.6E-03	5.5E-03	5.6E-02
FGF2	1.12	0.77	0.96	8.4E-02	2.3E-02	8.7E-03
DYSTROPHIN	1.12	0.74	0.92	1.3E-04	1.4E-04	1.7E-01
MYH9	1.09	0.69	0.85	2.4E-04	5.2E-20	3.5E-07
CDK5RAP3	1.09	0.84	0.98	1.2E-01	2.7E-02	7.7E-01
DAG1	1.08	0.75	0.92	3.6E-01	2.5E-02	4.6E-01
PXN	1.06	0.74	0.97	3.5E-01	6.5E-03	8.6E-01
PTPN1	1.06	0.79	1.06	2.7E-01	4.2E-02	2.1E-01
SHP-1	1.05	0.62	1.19	1.9E-01	1.1E-02	1.6E-01
WNK2	1.04	1.08	1.02	4.9E-01	7.2E-03	3.4E-01
ILK	1.04	0.81	0.94	4.3E-01	9.6E-04	2.6E-01
CHI3L1 iso 2	1.03	0.43	0.72	8.0E-01	4.9E-02	1.3E-02
NMDAR2B	1.03	0.95	0.82	7.6E-01	8.6E-03	2.3E-01
NF1	1.02	1.02	1.03	3.1E-01	4.1E-03	5.9E-02
EZRIN	1.02	0.82	1.02	6.3E-01	4.0E-05	3.5E-01
TSC2	1.01	1.06	1.04	8.8E-01	3.5E-02	4.7E-01
NRXN1	1.01	1.07	1.00	9.4E-01	4.1E-02	7.6E-01
EMC10	1.00	1.08	1.09	9.9E-01	2.9E-02	5.6E-02
TAPBP iso 2	1.00	1.14	0.98	9.8E-01	5.6E-03	9.4E-01
IGBP1	1.00	1.12	1.28	9.3E-01	2.6E-02	5.9E-02
SORL1	0.99	1.12	1.00	7.3E-01	1.5E-03	7.0E-01
NQO2	0.99	1.14	1.12	8.1E-01	6.6E-04	1.9E-03
MADD	0.99	1.09	1.01	7.3E-01	2.4E-03	6.5E-01

PKCD	0.99	1.05	1.18	7.9E-01	4.4E-02	4.4E-02
TRAF3	0.97	1.08	0.99	2.5E-01	1.2E-05	9.5E-01
CDH2	0.96	1.09	1.05	3.8E-01	1.5E-02	4.2E-01
GLUR6	0.95	1.15	1.12	4.1E-01	7.2E-03	5.7E-02
PLCB1	0.95	1.13	1.02	2.5E-01	1.2E-03	3.6E-01
HMGB1	0.95	0.86	0.92	3.2E-01	2.1E-02	1.0E-01
HSP105	0.95	1.07	0.95	1.8E-01	2.7E-02	3.4E-01
NCAM-L1 iso2	0.95	1.11	1.08	2.6E-01	1.3E-02	1.1E-01
MAGI3	0.95	1.13	1.04	1.3E-01	4.1E-02	2.1E-01
PAFAH1B1	0.94	1.03	1.01	1.2E-01	1.9E-02	5.5E-01
SEMA7A	0.93	0.85	1.16	1.2E-01	5.1E-03	1.9E-02
HRAS	0.92	1.13	1.11	1.3E-01	8.3E-03	1.1E-02
TNIK	0.92	1.18	1.21	7.9E-02	1.1E-02	4.4E-02
APP	0.92	1.06	1.08	1.6E-02	6.2E-03	3.3E-02
CAMK2D	0.92	1.16	1.10	7.8E-02	1.4E-03	7.5E-02
ARRB1	0.91	1.18	1.10	3.8E-01	3.9E-02	2.6E-01
MGLUR5	0.91	1.22	1.15	1.1E-02	6.0E-04	1.1E-03
PAK3	0.91	1.12	1.12	6.0E-02	3.6E-04	7.7E-03
G-ALPHA i2	0.90	1.07	1.14	1.2E-02	1.7E-02	2.9E-03
UCHL1	0.90	1.05	1.07	1.3E-02	4.9E-02	1.3E-01
MGLUR1	0.90	1.08	1.04	3.4E-02	7.4E-03	5.0E-01
NEUROPLASTIN	0.89	1.15	1.01	5.4E-02	1.5E-02	7.5E-01
MKL1	0.88	1.09	1.14	1.1E-02	2.4E-02	3.1E-02
PKCE	0.88	1.18	1.18	1.6E-02	3.8E-03	3.1E-02
PHB	0.86	1.10	1.08	1.3E-02	4.2E-02	2.4E-01
NPY	0.85	1.55	1.70	1.2E-01	2.1E-02	3.2E-02
CDC42	0.85	1.14	1.17	1.2E-01	2.2E-02	2.3E-02
SASH1	0.84	1.22	1.12	1.4E-01	3.9E-02	3.1E-01
PSAP	0.82	1.28	1.42	1.5E-03	1.2E-03	1.0E-03
KRAS	0.82	1.20	1.23	1.9E-03	3.9E-03	5.7E-03
THBS1	0.80	0.42	0.67	7.4E-04	2.6E-05	9.0E-05
ABCA7	0.79	1.65	1.54	1.8E-01	1.8E-02	2.1E-01
FN1	0.78	0.37	0.67	7.4E-13	1.1E-21	4.8E-14
KHS1	0.77	1.38	1.43	4.3E-02	1.9E-02	1.8E-01
GPR37L1	0.77	1.30	1.24	1.2E-02	2.3E-02	3.6E-02
SOD1	0.71	1.60	2.44	2.3E-03	4.2E-04	4.2E-06
RAP1A	0.71	1.32	1.39	1.5E-02	2.4E-03	6.4E-03
FGA iso 1	0.52	0.32	0.70	4.1E-16	6.7E-19	2.2E-07
FGG	0.45	0.37	0.78	1.2E-08	6.0E-13	1.1E-04
FGB	0.41	0.35	0.75	1.0E-14	3.2E-18	1.4E-05

Supplementary Table 3. Fold changes in expression levels of all isoforms of 90 phosphoproteins enriched in in NFκB signaling.

Phosphoprotein isoform	No-SCS :	DTMP :	LR-SCS :
	No-SNI	No-SCS	No-SCS
p-PDK1 (244)	0.89	1.20	0.90
p-JIP3 (201)	0.59	1.13	1.84
p-JIP3 (und)	0.98	0.63	0.77
p-JIP3 (und)	1.07	0.84	0.55
p-JIP3 (und)	0.65	1.13	0.31
p-JIP3 (und)	0.47	1.19	1.55
p-JIP3 (und)	0.58	1.28	2.35
p-JIP3 (und)	0.62	1.43	2.76
p-JIP3 (662)	1.29	0.69	0.32
p-CAMKK1 (458)	1.16	0.92	0.92
p-CAMKK1 (475)	0.94	1.28	1.41
p-CAMKK1 (74)	0.71	0.46	0.18
p-CAMKK1 (100)	0.85	1.06	0.72
p-CAMKK1 (492)	0.87	0.93	0.99
p-PPM1H (122)	1.00	0.87	1.01
p-PPM1H (210)	1.10	0.84	0.71
p-PPP1R14A (128)	1.14	0.24	0.76
p-PPP1R14A (136)	1.02	0.73	0.80
p-PPP1R14A (26)	0.17	2.78	4.45
p-MARK1 (633)	0.25	3.24	4.78
p-MARK1 (und)	0.93	1.07	1.03
p-MARK1 (und)	0.79	1.56	2.56
p-MARK1 (394,446)	0.50	2.17	2.13
p-MARK1 (403,455)	0.59	1.43	1.71
p-MARK1 (423,475)	0.76	1.24	1.95
p-MARK1 (613,666)	1.15	4.69	7.01
p-PPP1R12C (361)	0.95	1.29	1.15
p-PPP1R12C (und)	1.15	0.70	0.67
p-neurabin 1 (192)	0.32	0.43	2.94
p-neurabin 1 (372)	0.87	0.96	0.78
p-neurabin 1 (und)	0.62	0.87	1.34
p-neurabin 1 (365,371)	0.29	6.61	4.52
p-TAO1 (9)	0.34	0.48	3.18
p-TAO1 (445)	2.32	0.44	1.59
p-LKB1 (31)	0.37	1.51	2.79
p-GSK3B (9)	0.38	2.44	4.64
p-PPP1CC iso 2 (311;295)	0.39	0.35	0.77
p-PPP1R3D (54,58)	0.40	1.88	2.05
p-PPP1R3D (58)	1.30	1.90	2.42
p-PPP1R3D (25)	1.19	1.21	0.73
p-ERK4 (186)	1.44	0.86	0.83

p-ERK4 (430)	1.16	0.80	0.94
p-Spinophilin (100)	0.52	1.22	1.33
p-PKCG (330)	0.69	1.12	1.34
p-PKCG (687)	0.62	1.57	1.92
p-PKCG (689)	0.95	1.63	3.06
p-PKCG (639;690)	0.42	1.80	1.63
p-PKCB iso 2 (642)	1.02	1.01	0.73
p-p70S6K (447)	0.45	1.58	2.34
p-SNIP (1021)	0.72	1.26	1.16
p-SNIP (1077)	0.71	1.31	1.49
p-SNIP (200)	0.44	2.00	2.32
p-SNIP (260)	0.88	1.09	1.03
p-SNIP (367,374)	0.45	3.31	10.42
p-SNIP (374)	0.74	1.45	1.49
p-SNIP (374,378)	0.54	1.78	3.13
p-SNIP (375)	0.45	1.68	0.46
p-SNIP (375,378)	0.53	1.86	3.39
p-SNIP (378)	0.77	1.39	1.33
p-SNIP (534)	0.69	1.24	1.78
p-SNIP (547)	1.08	1.00	0.79
p-SNIP (556)	0.76	1.33	1.46
p-SNIP (98)	0.80	2.11	1.44
p-SNIP (1037)	0.74	1.13	1.22
p-SNIP (1152)	2.81	1.54	1.66
p-SNIP (333;336)	0.96	1.03	1.28
p-SNIP (und)	0.79	1.29	1.36
p-SNIP (und)	0.53	1.56	1.81
p-SNIP (341,359)	0.35	1.56	0.05
p-SNIP (342;353)	0.71	1.14	0.91
p-SNIP (357;359)	0.66	1.61	1.22
p-SNIP (399)	0.49	2.14	2.39
p-SNIP (507;508)	0.82	1.14	1.43
p-SNIP (527, 537)	0.69	1.24	1.78
p-SNIP (534)	0.87	1.33	1.77
p-SNIP (537)	0.50	1.70	1.60
p-SNIP (542)	1.36	0.88	0.47
p-SNIP (655)	0.57	2.40	1.50
p-SNIP (878)	0.80	0.41	0.29
p-p90RSK (363;369)	0.50	1.52	1.53
p-p90RSK (221;227)	1.40	0.86	1.36
p-ERK2 (183;185)	1.34	0.64	0.71
p-ERK2 (183)	2.08	1.18	0.99
p-ERK2 (185)	0.52	1.78	2.38
p-FAK (843)	0.63	0.77	1.72
p-FAK (913)	0.66	1.28	1.48
p-FAK (928)	0.54	1.75	1.22
p-TAO2 iso2 (9)	0.55	0.29	0.50

p-DARPP-32 (34)	0.57	2.84	5.12
p-DARPP-32 (45,46)	2.07	0.49	1.05
p-DARPP-32 (102)	1.86	0.60	0.96
p-PKAR1A (77, 83;77, 83)	0.74	1.16	1.18
p-PKAR1A (83)	1.30	0.90	0.95
p-MAPKAPK2 (208)	0.63	1.13	1.45
p-NKAP (139;147)	0.64	1.28	1.90
p-PPP1R3G (81)	0.65	1.46	1.01
p-MKK4 (389)	1.44	0.91	0.69
p-MKK4 (389, 391)	0.67	1.40	2.79
p-MKK4 (88)	1.12	1.16	0.85
p-MKK4 (255)	1.31	0.56	0.73
p-MKK4 (391, 392)	1.88	0.62	1.32
p-MKK4 (392;395)	0.73	0.86	1.23
p-MKK4 (78)	1.46	0.75	0.96
p-PPM1E (532)	0.84	1.26	0.89
p-PPM1E (532, 545)	0.69	1.40	2.20
p-PPM1E (545)	0.81	1.39	1.29
p-PPM1E (550;551)	0.77	1.08	1.04
p-SIN1 (510)	0.69	1.19	2.26
p-LZK (678)	0.71	1.66	1.23
p-ASK1 (1040)	0.73	0.77	0.90
p-Raptor (722)	0.78	1.55	3.01
p-Raptor (859, 863)	0.82	1.14	2.26
p-Raptor (859)	0.85	1.03	0.91
p-JNK3 (221)	1.15	1.06	1.55
p-JNK3 (223)	0.66	0.88	0.92
p-MEKK2 (239)	1.29	0.87	1.10
p-MEKK2 (331)	0.83	0.14	1.38
p-MAP2K7 (403;419)	0.84	1.72	1.77
p-MEK1 (386)	0.94	1.27	2.48
p-ARPP-21 iso 2 (381)	0.80	1.24	1.30
p-GCK (257;289;298)	1.07	1.08	0.61
p-MSK1 (und)	1.04	0.73	0.75
p-PKACB (264)	0.96	2.20	3.28
p-PKAR2A (97)	1.03	1.17	0.98
p-PPP1CA (320)	1.07	0.92	0.69
p-RSKL1 (und)	1.43	0.96	0.89
p-RSKL1 (und)	1.58	1.07	0.91
p-RSKL1 (und)	1.03	0.87	1.56
p-RSKL1 (594)	0.94	0.98	0.97
p-RSKL1 (und)	1.09	1.34	0.84
p-RSKL1 (und)	0.93	0.84	1.30
p-MYPT1 (997)	0.76	0.70	1.59
p-MYPT1 (299)	0.95	1.82	3.39
p-MYPT1 (445)	1.36	1.14	2.06
p-MYPT1 (409)	1.13	0.72	0.15

p-PKCH (656)	1.24	0.57	0.22
p-14-3-3 theta (232)	1.28	0.68	0.64
p-GFAP (12)	1.66	1.35	2.51
p-GFAP (148)	6.40	0.64	0.58
p-GFAP (267)	0.91	0.94	1.77
p-GFAP (303)	1.51	0.23	0.34
p-GFAP (321)	1.30	0.84	1.15
p-GFAP (36)	2.15	0.76	0.97
p-GFAP (36, 41)	0.89	1.06	1.67
p-GFAP (383)	1.02	0.91	1.34
p-GFAP (41)	1.04	1.33	1.84
p-GFAP (13)	0.83	2.47	4.17
p-GFAP (15)	1.01	1.36	2.93
p-GFAP (296)	1.43	1.44	2.17
p-GFAP (31)	2.46	0.96	2.21
p-GFAP (319)	2.11	0.69	0.98
p-GFAP (38)	1.20	1.25	1.46
p-GFAP (391)	1.78	0.98	1.74
p-GFAP (398)	1.61	0.85	1.58
p-PKCA (226)	0.93	0.85	0.88
p-PKCA (497)	1.41	0.13	0.31
p-PKCA (504)	1.91	0.88	2.38
p-PKCA (638)	0.11	0.96	4.19
p-MSK2 (745)	1.27	2.00	0.53
p-MSK2 (682)	1.41	0.14	0.80
p-AKT1 (124, 129;124, 129)	2.12	1.23	1.34
p-AKT1 (124)	1.47	0.97	0.97
p-AKT1 (122)	1.42	1.02	1.15
p-PPP1R13B (und)	0.98	1.06	0.88
p-KHS1 (304)	0.86	1.08	0.87
p-MEK2 (393,394)	1.29	0.74	1.09
p-MEK2 (394)	1.16	0.58	1.36
p-BRAF (und)	0.89	1.13	1.36
p-BRAF (und)	1.48	0.80	0.43
p-BRAF (483;484)	1.09	1.09	0.93
p-PKCT (307)	1.19	1.16	2.35
p-PKCT (676)	1.62	0.64	0.83
p-PKCI (412)	1.63	0.88	0.85
p-MEKK4 (1031)	1.64	0.30	1.14
p-AKT3 (34)	1.68	0.75	0.80
p-AKT3 (120)	0.94	1.04	0.55
p-14-3-3 zeta (110)	1.69	0.47	0.09
p-YAP1 iso3 (und)	1.41	0.91	0.90
p-YAP1 iso3 (112)	5.44	0.56	0.60
p-YAP1 iso3 (113)	3.24	0.54	0.52
p-YAP1 iso3 (94)	1.69	0.23	0.19
p-YAP1 iso3 (95)	1.74	1.01	0.98

p-mTOR (1261)	1.71	0.55	1.03
p-TAK1 (439)	0.99	0.92	0.97
p-TSC2 (1254)	1.11	1.06	0.82
p-TSC2 (1413)	1.08	0.85	1.93
p-TSC2 (und)	1.85	0.98	0.57
p-TSC2 (und)	0.97	0.76	0.74
p-TSC2 (und)	0.57	1.53	1.61
p-TSC2 (und)	0.84	0.69	0.74
p-TSC2 (939)	1.02	1.09	1.50
p-PPP1CB (311;316)	1.80	0.95	0.72
p-HGK iso3 (566)	0.96	0.97	1.49
p-HGK iso3 (und)	1.80	0.70	1.62
p-HGK iso3 (und)	0.80	1.15	2.76
p-HGK iso3 (839)	1.65	0.96	2.51
p-PPP1R7 (12, 24;12, 24)	1.29	1.35	0.36
p-PPP1R7 (12, 27;12, 27)	1.22	0.92	1.30
p-PPP1R7 (12)	1.33	0.85	0.68
p-PPP1R7 (24, 27;24, 27)	1.88	0.73	0.78
p-PPP1R7 (44, 47;44, 47)	1.61	0.78	0.84
p-PPP1R7 (44)	1.32	1.05	0.63
p-PPP1R7 (47)	0.93	0.91	1.15
p-PKCZ (und)	1.92	0.85	0.68
p-PPM1G (524)	1.96	1.34	0.43
p-STAT3 (714)	0.75	1.06	1.09
p-STAT3 (727)	0.79	0.96	1.32
p-STAT3 (705)	2.03	0.48	1.26
p-PPP1R2 (87)	0.89	0.84	0.57
p-PPP1R2 (175,177)	2.18	0.59	0.28
p-PKAR2B (83,85)	1.52	0.79	0.88
p-PKAR2B (112)	1.38	1.00	0.98
p-PKCE (329)	0.68	1.12	0.88
p-PKCE (346, 349)	1.20	1.16	1.18
p-PKCE (368)	0.89	1.20	1.35
p-PKCE (388)	1.26	1.01	1.36
p-MST1 (320)	2.90	0.34	0.30
p-DEPTOR (und)	2.91	0.73	1.03
p-DEPTOR (und)	0.87	1.23	1.47
p-PKAR1B (und)	3.10	0.41	0.94
p-PKAR1B (61)	0.81	1.98	1.44
p-PRAS40 (und)	0.84	0.72	0.55
p-PRAS40 (und)	1.31	0.42	0.56
p-PRAS40 (und)	0.75	0.65	0.60
p-PRAS40 (und)	3.20	0.59	0.72
p-ARAF iso 1 (580;621)	3.25	1.23	3.27
p-PPP1R11 (78;57)	3.89	0.83	0.42
p-MAP3K12 (43)	3.98	0.77	1.44
p-CFH (885)	4.20	0.37	0.61

p-CFH (886)	3.49	0.53	1.08
p-Lamtor1 (28)	1.01	1.04	0.97
p-Lamtor1 (39)	4.62	0.35	0.66
p-14-3-3 epsilon (210)	0.71	0.60	1.18
p-PKCD (643)	0.99	1.13	1.37
p-PKCD (662)	5.19	0.77	0.64
p-ERK1 (203)	7.59	1.03	1.17
p-ERK1 (203, 205)	4.28	0.53	0.41
p-ERK1 (205)	0.72	1.08	2.55
p-RICTOR (und)	0.56	1.54	2.20
p-RICTOR (und)	0.59	1.16	1.10
p-Vimentin (325)	2.48	0.24	0.14
p-Vimentin (39)	3.37	1.15	2.55
p-Vimentin (430)	20.22	0.06	0.75
p-Vimentin (459)	11.48	0.45	0.96
p-Vimentin (51)	3.74	0.71	1.70
p-Vimentin (56)	3.63	0.60	1.39
p-Vimentin (73)	5.14	0.62	0.98
p-Vimentin (10)	3.57	0.91	1.39
p-Vimentin (18)	5.19	0.54	1.28
p-Vimentin (436)	3.93	0.76	1.37
p-Vimentin (48)	1.59	0.84	1.26
p-Vimentin (7)	7.61	0.61	1.38
p-AP1B1 (603, 605)	1.41	0.55	0.07
p-JUND (73)	1.21	0.82	1.34

Supplementary Table 4. Fold changes of phosphoproteins associated with MAP kinase cascade

Phosphoprotein isoform	No-SCS : No-SNI	DTMP : No-SCS	LR-SCS : No-SCS
p-GCK (257;289;298)	1.07	1.08	0.61
p-HGK (und)	0.80	1.15	2.76
p-HGK (566)	0.96	1.03	1.49
p-HGK (839)	1.65	0.87	2.51
p-HGK (und)	1.80	0.70	1.62
p-KHS1 (304)	0.86	1.15	0.87
p-MEKK2 (331)	0.83	0.14	1.38
p-MEKK2 (239)	1.29	0.87	1.10
p-MEKK4 (1031)	1.64	0.30	1.14
p-MAP3K12 (43)	3.98	0.77	1.44
p-TAO1 (9)	0.34	0.48	3.18
p-TAO1 (445)	2.32	0.44	1.59
p-TAO2 (9)	0.55	0.29	0.50
p-ARAF (580;621)	3.25	1.23	3.27
p-BRAF (167;134)	0.89	1.13	1.36
p-BRAF (483;484)	1.09	1.09	0.93
p-BRAF (und)	1.48	0.80	0.43
p-LZK (678)	0.71	1.66	1.23
p-ASK (1040)	0.73	0.77	0.90
p-TAK1 (439)	0.99	0.92	0.97
p-MEK1 (386)	0.94	1.27	2.48
p-MEK2 (394)	1.16	0.58	1.36
p-MEK2 (393;394)	1.29	0.74	1.09
p-MKK4 (389, 391)	0.67	1.40	2.79
p-MKK4 (392;395)	0.73	0.86	1.23
p-MKK4 (88)	1.12	1.16	0.85
p-MKK4 (255)	1.31	0.56	0.73
p-MKK4 (389)	1.44	0.91	0.69
p-MKK4 (78)	1.46	0.75	0.96
p-MKK4 (391, 392)	1.88	0.62	1.32
p-MAP2K7 (403;419)	0.84	1.72	1.77
p-JNK3 (223;185)	0.66	0.88	0.92
p-JNK3 (221, 223;221, 223;183, 185)	1.15	1.06	1.55
p-ERK1 (205)	0.72	1.19	2.55
p-ERK1 (203, 205)	4.28	0.53	0.41
p-ERK1 (203)	7.59	0.42	1.17
p-ERK2 (185)	0.52	1.78	2.38
p-ERK2 (183, 185;183, 185)	1.34	0.64	0.71
p-ERK2 (183)	2.08	1.18	0.99
p-ERK4 (430)	1.16	0.80	0.94
p-ERK4 (186)	1.44	0.86	0.83
p-p70S6K (447)	0.45	1.58	2.34
p-p90RSK (363;369)	0.50	1.52	1.53

p-p90RSK (221;227)	1.40	0.86	1.36
p-RSKL1 (und)	0.93	0.84	1.30
p-RSKL1 (594)	0.94	0.98	0.97
p-RSKL1 (und)	1.03	0.87	1.56
p-RSKL1 (und)	1.09	1.34	0.84
p-RSKL1 (und)	1.43	0.96	0.89
p-RSKL1 (und)	1.58	1.07	0.91
p-MSK1 (517;719;773;797)	1.04	0.73	0.75
p-MSK2 (745)	1.27	2.00	0.53
p-MSK2 (682)	1.41	0.22	0.80
p-MAPKAPK2 (208)	0.63	1.13	1.45
p-SIN1 (510)	0.69	1.19	2.26
p-JIP3 (und)	0.47	1.19	1.55
p-JIP3 (und)	0.58	1.28	2.35
p-JIP3 (201)	0.59	1.13	1.84
p-JIP3 (und)	0.62	1.43	2.76
p-JIP3 (und)	0.65	1.13	0.31
p-JIP3 (und)	0.98	0.63	0.77
p-JIP3 (und)	1.07	0.84	0.55
p-JIP3 (662)	1.29	0.69	0.32