



## Supplementary Materials

**Table S1.** Fold changes between samples. Table S1 shows fold changes between treatment samples in comparison to controls. Table S1 contains all investigated targets associated to the autophagy regulation pathway mTOR.

Antibody List	2 g/cm <sup>2</sup> /Control	8 g/cm <sup>2</sup> /Control	11-1 $\beta$ /Control
4E-BP1 (Ab-36)	0.92	0.86	0.86
4E-BP1 (Ab-45)	0.84	0.95	0.85
4E-BP1 (Ab-65)	1.34	0.94	0.65
4E-BP1 (Ab-70)	0.95	0.87	0.93
4E-BP1 (Phospho-Ser65)	1.12	1.16	1.09
4E-BP1 (Phospho-Thr36)	1.01	1.01	1.02
4E-BP1 (Phospho-Thr45)	0.61	1.12	0.81
4E-BP1 (Phospho-Thr70)	0.98	1.14	1.02
6-Phosphofructo-2-Kinase (PFKFB2) (inter)	0.84	0.84	0.85
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2 (PFKFB2) (Ab-483)	1.15	1.26	1.03
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2 (PFKFB2) (Phospho-Ser483)	0.92	1.01	0.84
AKT (Ab-308)	0.85	0.68	0.71
AKT (Ab-326)	1.07	1.45	1.03
AKT (Ab-473)	0.88	0.69	0.87
AKT (Phospho-Ser473)	1.01	0.91	1.03
AKT (Phospho-Thr308)	0.60	0.58	0.77
AKT (Phospho-Tyr326)	1.01	1.17	0.93
AKT1 (Ab-124)	0.78	0.73	0.73
AKT1 (Ab-246)	0.88	1.02	0.87
AKT1 (Ab-450)	0.97	0.77	0.82
AKT1 (Ab-474)	0.81	0.98	0.80
AKT1 (Ab-72)	0.91	1.08	0.86
AKT1 (Phospho-Ser124)	1.08	1.22	1.17
AKT1 (Phospho-Ser246)	1.08	1.03	0.98
AKT1 (Phospho-Thr450)	1.11	1.08	1.24
AKT1 (Phospho-Thr72)	0.93	0.85	0.92
AKT1 (Phospho-Tyr474)	0.80	0.71	0.82
AKT1S1 (Ab-246)	0.81	0.88	0.69
AKT1S1 (Phospho-Thr246)	0.91	0.94	0.89
AKT2 (Ab-474)	1.00	0.84	0.78
AKT2 (Phospho-Ser474)	0.79	0.90	0.72
AMPK1/AMPK2 (Ab-183/172)	0.95	1.07	0.97
AMPK1/AMPK2 (Ab-485/491)	1.03	0.79	0.96
AMPK1/AMPK2 (Phospho-Ser485/491)	1.06	1.02	1.00
AMPK1/AMPK2 (Phospho-Thr183/172)	1.09	1.12	0.83
AMPKbeta1 (Ab-182)	1.04	0.97	0.91
AMPKbeta1 (Phospho-Ser182)	1.13	1.25	1.24
BAD (Ab-112)	1.00	0.86	0.88
BAD (Ab-134)	0.90	0.75	0.89
BAD (Ab-136)	1.00	0.77	0.88
BAD (Ab-155)	1.03	0.87	0.94
BAD (Ab-91/128)	1.13	0.74	0.87
BAD (Phospho-Ser112)	0.89	0.85	0.65
BAD (Phospho-Ser134)	0.95	0.98	0.79
BAD (Phospho-Ser136)	0.81	0.79	0.76

BAD (Phospho-Ser155)	0.97	1.04	0.95
BAD (Phospho-Ser91/128)	1.01	1.20	1.07
Beta actin	1.08	0.94	0.80
CBP (inter)	0.88	0.82	0.80
CBPN (inter)	0.82	0.86	0.83
eIF2A (Ab-51)	0.97	0.95	0.86
eIF2A (Phospho-Ser51)	1.01	1.05	0.98
eIF4B (Phospho-Ser422)	0.99	1.13	1.02
eIF4E (Ab-209)	0.86	0.93	0.95
eIF4E (Phospho-Ser209)	0.94	1.07	0.95
eIF4G (Ab-1108)	0.96	1.12	0.77
eIF4G (Phospho-Ser1108)	1.24	1.10	0.91
ERK1/2 (N-term)	0.69	0.61	0.61
ERK1-p44/42 MAP Kinase (Ab-202)	0.86	0.91	0.89
ERK1-p44/42 MAP Kinase (Ab-204)	0.80	0.90	0.83
ERK1-p44/42 MAP Kinase (Phospho-Thr202)	0.91	0.91	0.83
ERK1-p44/42 MAP Kinase (Phospho-Tyr204)	0.95	0.97	1.01
ERK3 (Ab-189)	0.83	0.65	0.81
ERK3 (Phospho-Ser189)	1.13	1.28	1.13
ERK8 (Phospho-Thr175/Tyr177)	0.99	1.17	1.06
GAPDH	1.06	1.08	1.16
GSK3 $\alpha$ (Ab-21)	0.96	0.95	0.89
GSK3 $\alpha$ (Phospho-Ser21)	0.78	0.73	0.63
GSK3 $\alpha$ - $\beta$ (Ab-216/279)	0.90	0.69	0.88
GSK3 $\alpha$ - $\beta$ (Phospho-Tyr216/279)	0.94	0.87	0.83
GSK3 $\beta$ (Ab-9)	1.32	1.36	1.27
GSK3 $\beta$ (Phospho-Ser9)	1.01	0.93	0.81
IR (Phospho-Tyr1355)	1.05	0.81	1.12
IR (Phospho-Tyr1361)	1.26	0.67	0.99
LRP11 (inter)	0.90	0.95	0.88
LRP3 (inter)	1.01	1.12	1.07
Mnk1 (Ab-385)	0.85	0.83	0.89
Mnk1 (Phospho-Thr385)	0.99	1.38	1.21
mTOR (Ab-2446)	0.90	0.71	0.93
mTOR (Ab-2448)	1.07	0.87	0.83
mTOR (Ab-2481)	0.90	1.02	0.67
mTOR (Phospho-Ser2448)	0.91	1.13	0.93
mTOR (Phospho-Ser2481)	0.89	0.79	0.75
mTOR (Phospho-Thr2446)	0.75	1.00	0.93
P70S6K (Ab-229)	0.77	0.95	0.74
P70S6K (Ab-371)	1.10	1.19	1.08
P70S6K (Ab-411)	0.97	0.88	0.80
P70S6K (Ab-418)	0.85	0.86	0.74
P70S6K (Ab-421)	1.02	0.77	0.96
P70S6K (Ab-424)	0.91	0.94	0.83
P70S6K (Ab-427)	0.91	0.68	0.85
P70S6K (Phospho-Ser371)	1.27	1.38	1.31
P70S6K (Phospho-Ser411)	0.96	1.10	1.03
P70S6K (Phospho-Ser418)	1.69	1.90	1.73
P70S6K (Phospho-Ser424)	1.03	1.14	1.04
P70S6K (Phospho-Thr229)	1.18	1.19	1.14
P70S6K (Phospho-Thr389)	1.35	1.53	1.28
P70S6K (Phospho-Thr421)	0.96	0.94	0.92
P70S6K beta (Ab-423)	0.87	0.68	0.81
P70S6K beta (Phospho-Ser423)	1.12	1.09	0.96
P90RSK (Ab-359/363)	0.80	0.61	0.51

P90RSK (Ab-380)	0.89	0.86	0.82
P90RSK (Ab-573)	0.95	0.92	0.88
P90RSK (Phospho-Ser380)	1.09	0.92	1.12
P90RSK (Phospho-Thr359/Ser363)	1.79	0.94	1.21
P90RSK (Phospho-Thr573)	1.18	1.04	1.29
PDK1 (Ab-241)	1.16	1.21	0.77
PDK1 (Phospho-Ser241)	0.93	0.95	0.77
PI3-kinase p85-alpha (Phospho-Tyr607)	1.02	1.10	1.20
PI3-kinase p85-subunit alpha/gamma (Ab-467/199)	0.95	0.65	0.62
PI3-kinase p85-subunit alpha/gamma (Phospho-Tyr467/Tyr199)	1.08	1.10	0.99
PIP5K (inter)	1.01	0.99	1.26
PIP5K (Phospho-Ser307)	1.33	1.58	1.14
PKC alpha (Ab-657)	1.36	1.52	1.28
PKC alpha (Phospho-Tyr657)	1.17	1.57	1.29
PKC alpha/beta II (Ab-638)	0.94	1.20	0.91
PKC alpha/beta II (Phospho-Thr638)	1.09	1.06	1.08
PLK1 (Ab-210)	0.57	0.53	0.50
PP2A-alpha (Ab-307)	0.84	0.82	0.59
PP2A-alpha (Phospho-Tyr307)	1.11	0.96	1.12
PPAR-beta (Ab-1457)	0.86	0.72	0.75
PPAR-beta (Phospho-Thr1457)	0.97	1.04	0.96
PPAR-gamma (Ab-112)	0.88	0.64	0.46
PPAR-gamma (Phospho-Ser112)	1.26	1.33	1.12
PTEN (Ab-370)	0.64	0.73	0.55
PTEN (Ab-380)	1.14	0.99	0.63
PTEN (Ab-380/382/383)	0.78	0.71	0.75
PTEN (Phospho-Ser370)	1.23	1.10	1.14
PTEN (Phospho-Ser380)	0.94	0.96	1.05
PTEN (Phospho-Ser380/Thr382/Thr383)	1.18	1.43	1.10
Rho/Rac guanine nucleotide exchange factor 2 (Ab-885)	0.95	0.71	0.90
Rho/Rac guanine nucleotide exchange factor 2 (Phospho-Ser885)	0.94	1.17	1.02
RhoA (Ab-188)	0.93	0.90	0.83
RSK1/2/3/4 (Ab-221/227/218/232)	0.89	0.84	0.72
RSK1/2/3/4 (Phospho-Ser221/227/218/232)	1.10	1.27	0.99
Tuberin (Ab-981)	0.57	0.46	0.54
Tuberin/TSC2 (Ab-1462)	0.92	1.04	0.96
Tuberin/TSC2 (Ab-939)	0.86	1.04	0.83
Tuberin/TSC2 (Phospho-Ser939)	1.09	0.76	1.00
Tuberin/TSC2 (Phospho-Thr1462)	0.99	0.73	0.88

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