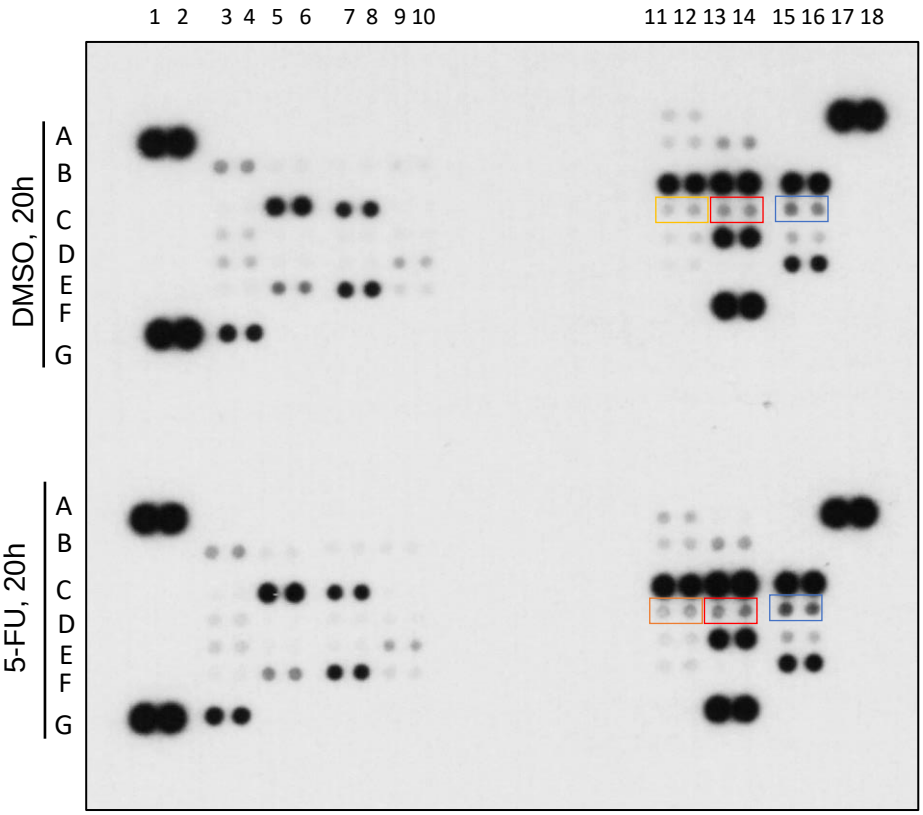
SI Figure 1

Processed and raw data of phospho-kinase array used for the quantification of Figure 1c

Processed results

a

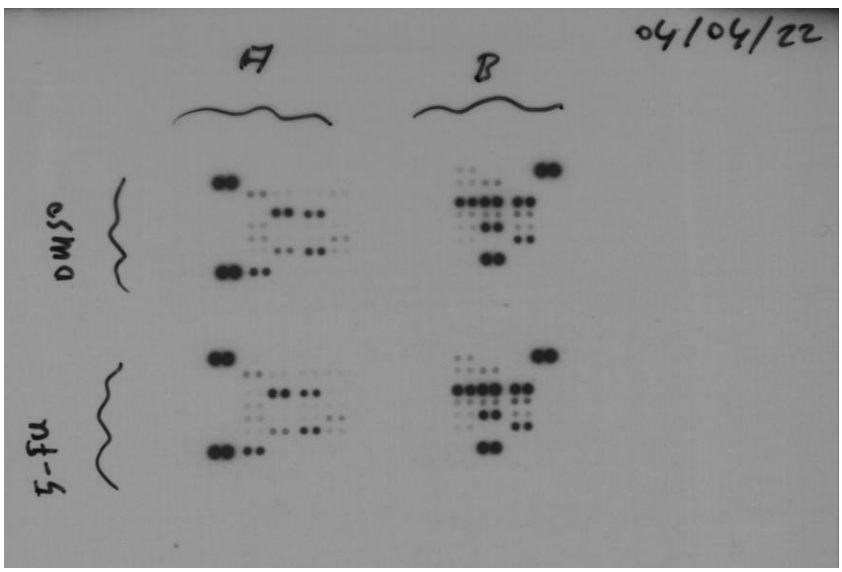


b

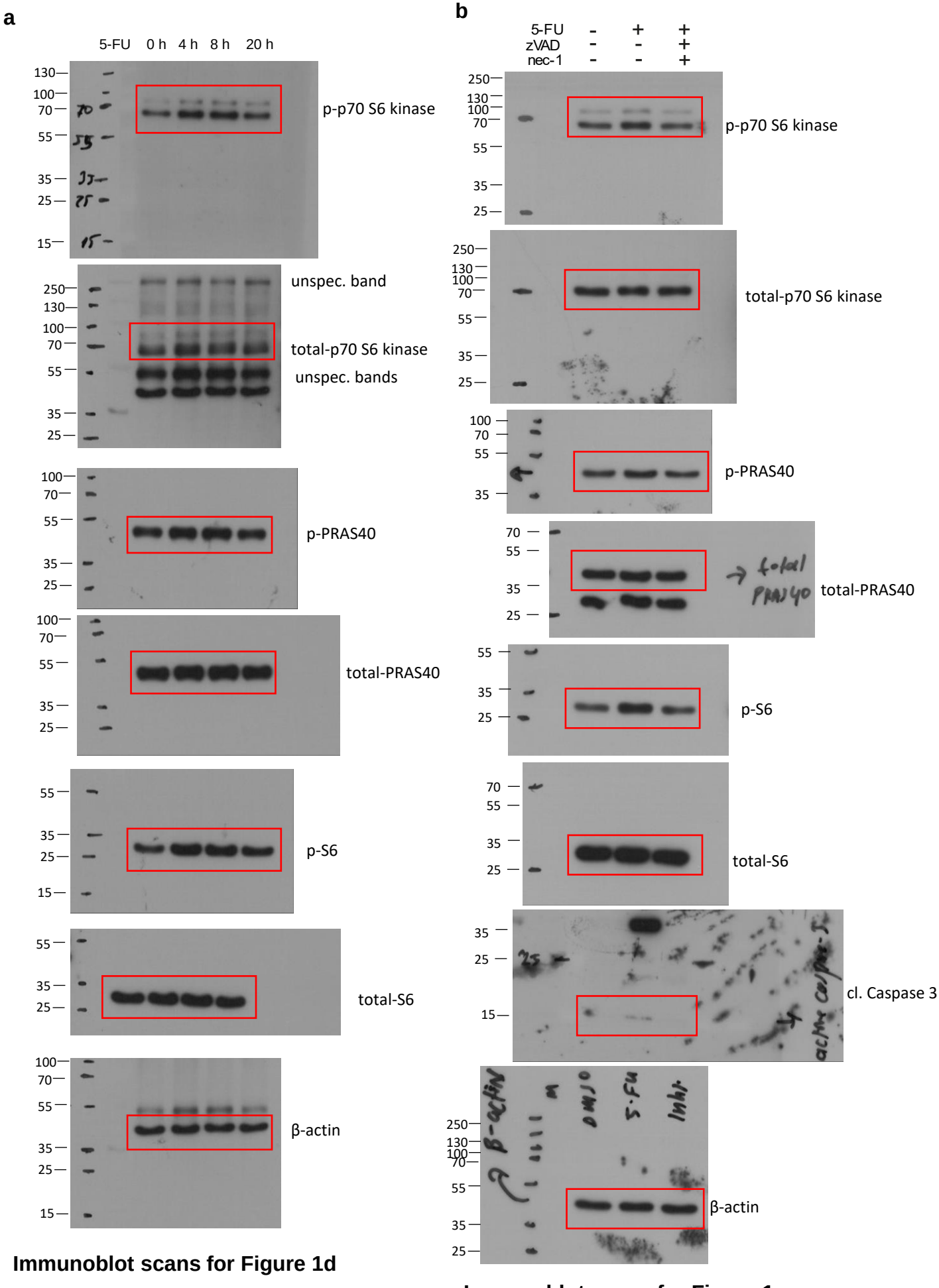
A1, A2 = Reference spot
A11, A12= Akt 1/2/3 (T308)
A13,14 = Akt 1/2/3 (S473)
A17,18 = Reference spot
B3,B4 = CREB (S133)
B5,B6 = EGFR (Y1086)
B7,B8 = eNOS (S1177)
B9, B10 = ERK1/2 ((T202/Y204, T185/Y187)
B11, B12 = Chk-2 (T68)
B13, B14 = c-Jun (S63)
C3, C4 = Fgr (Y412)
C5, C6 = GSK-3α/β (S21/S9)
C7, C8 = GSK-3β (S9)
C9, C10 = HSP27 (S78/S82)
C11, C12 = p53 (S15)
C13,C14 = p53 (S46)
C15,C16 = p53 (S392)
D3, D4 = JNK 1/2/3 (T183/Y185, T221/Y223
D5, D6 = Lck (Y394)
D9, D10 = MSK1/2 (S376/S360
D11, D12 = p70 S6 Kinase (T389)
D13, D14 = p70 S6 Kinase (T421/S424)
D15, D16 = PRAS40 (T246)
E3, E4 = p38α (T180/Y182)
E5, E6 = PDGFRβ (Y751)
E7, E8 = PLC-γ1 (Y783)
E9, E10 = Src (Y419)
E11, E12 = PYK2 (Y402)
E13, E14 = RSK1/2 (S221/S227)
E15, E16 = RSK1/2/3 (S380/S386/S377)
F3, F4 = STAT2 (Y689)
F5, F6 = STAT5a/b (Y694/Y699)
F7, F8 = WNK1 (T60)
F9, F10 = Yes (Y426)
F11, F12 = STAT1 (Y701)
F13, F14 = STAT3 (Y05)
F15, F16 = STAT3 ((S727)
G1, G2 = Reference spot
G3, G4 = β-Catenin
G9, G10 = PBS (negative control)
G11, G12 = STAT6 (Y641)
G13, G14 = HSP60
G17, G18 = PBS (negative control)

Raw data

c



SI Figure 2

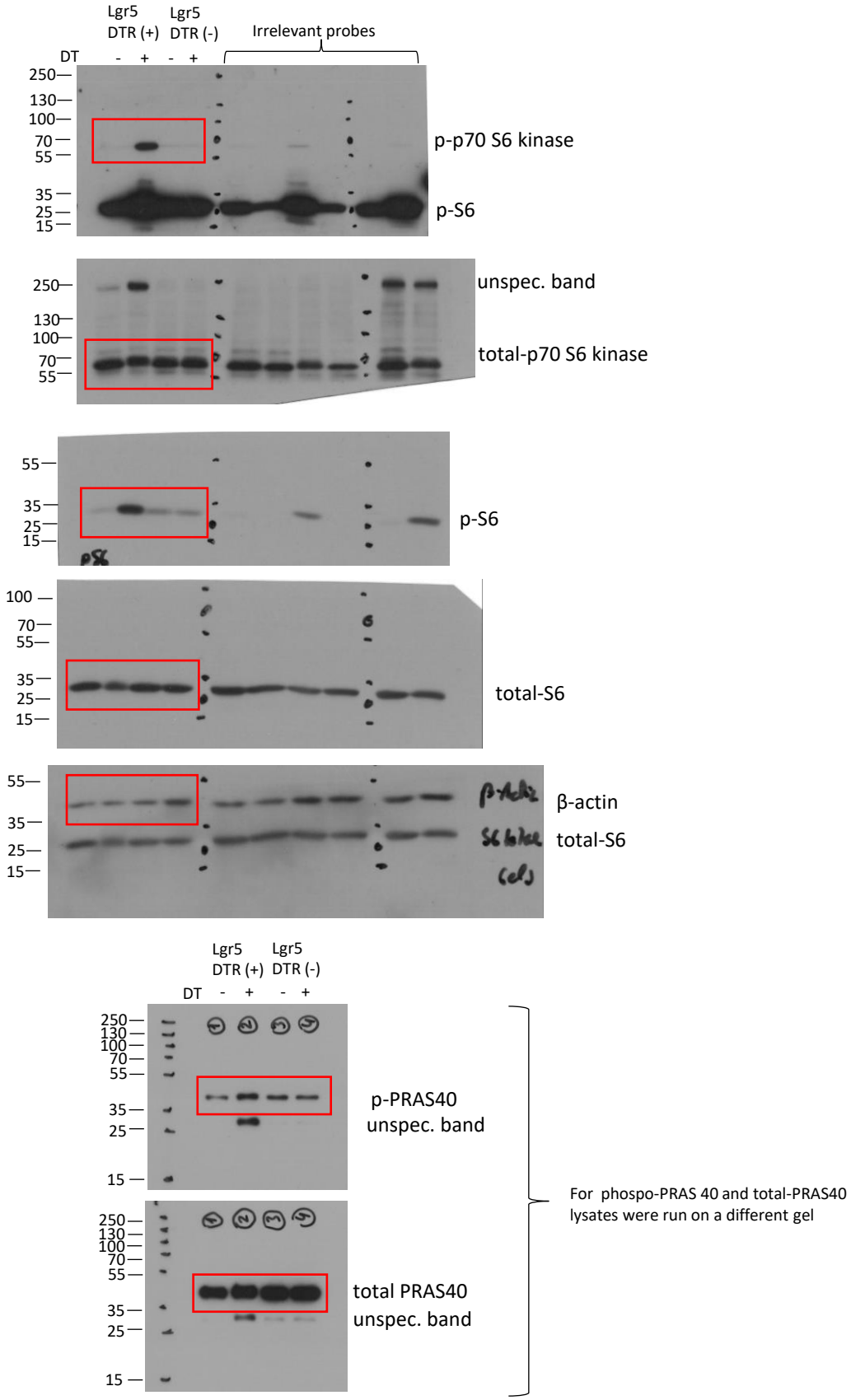


Immunoblot scans for Figure 1d

Immunoblot scans for Figure 1e

SI Figure 3

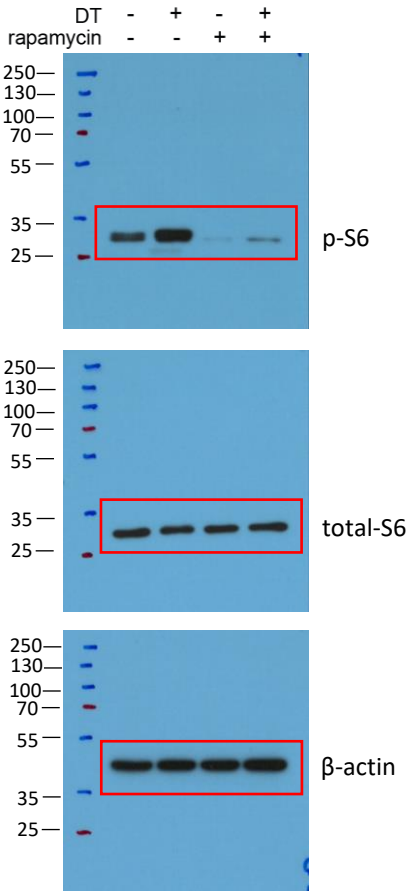
a



Immunoblot scans for Figure 2a

SI Figure 4

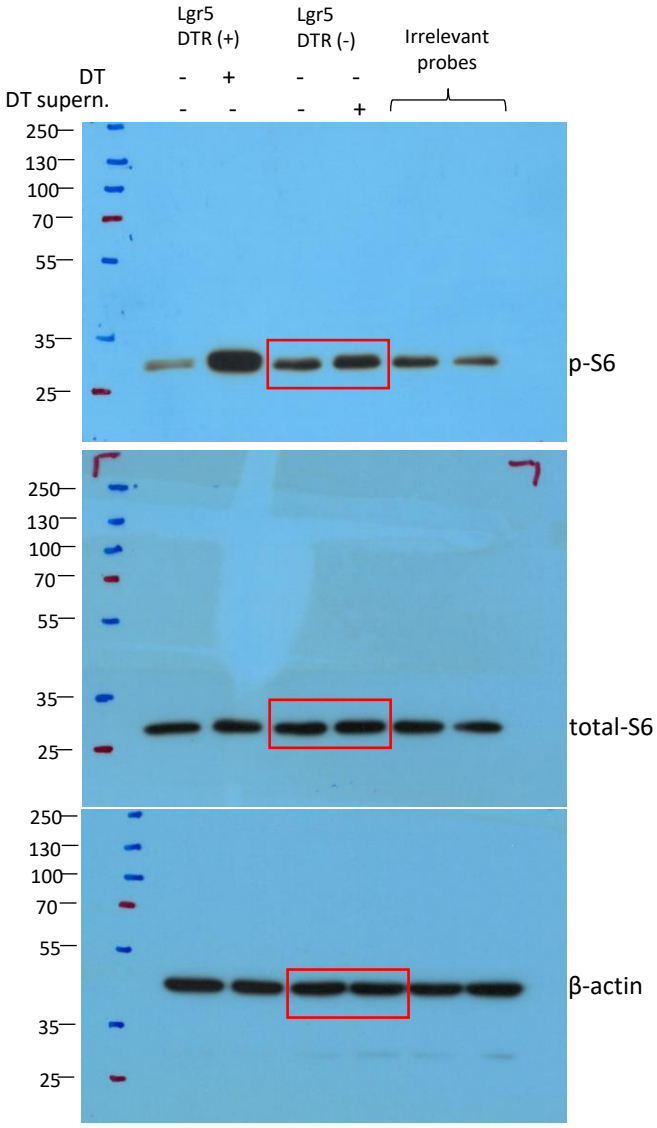
a



Immunoblot scans for Figure 2g

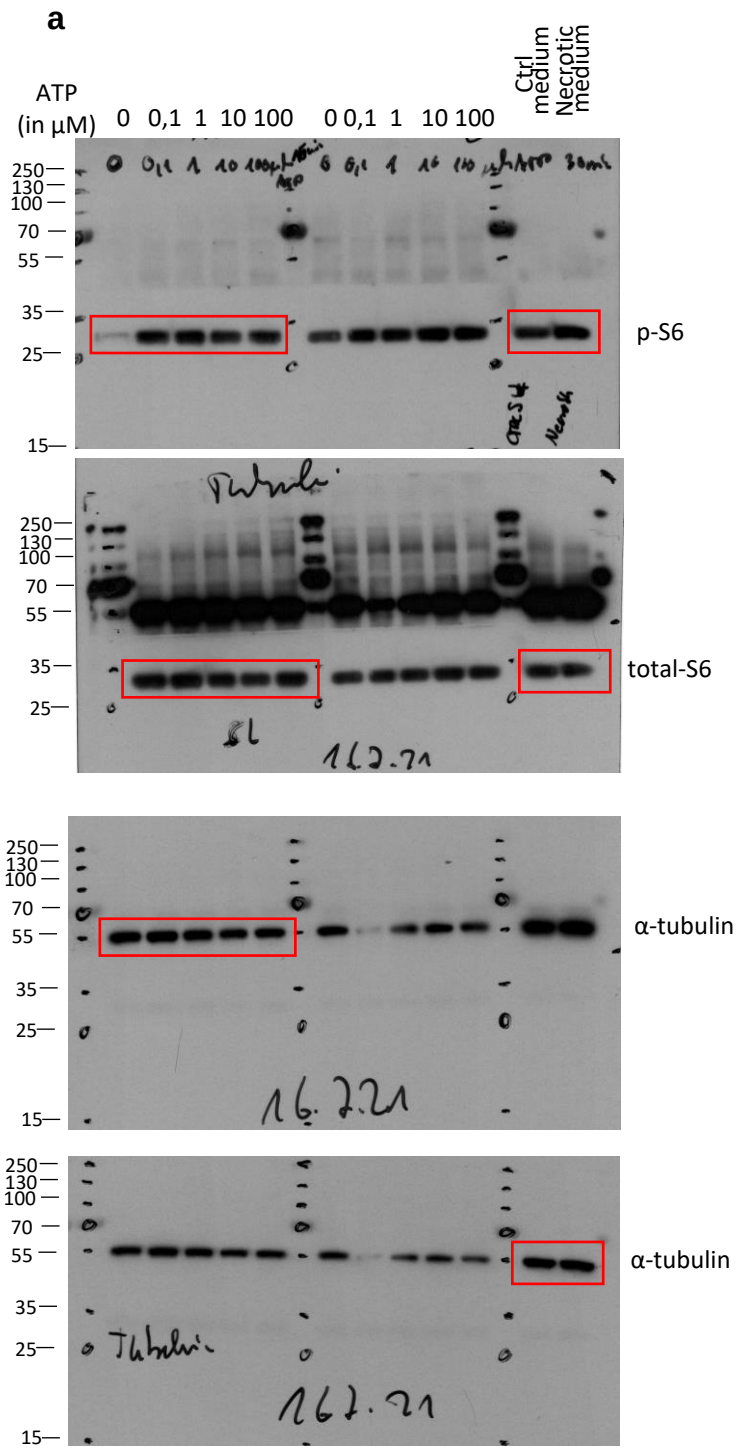
SI Figure 5

a

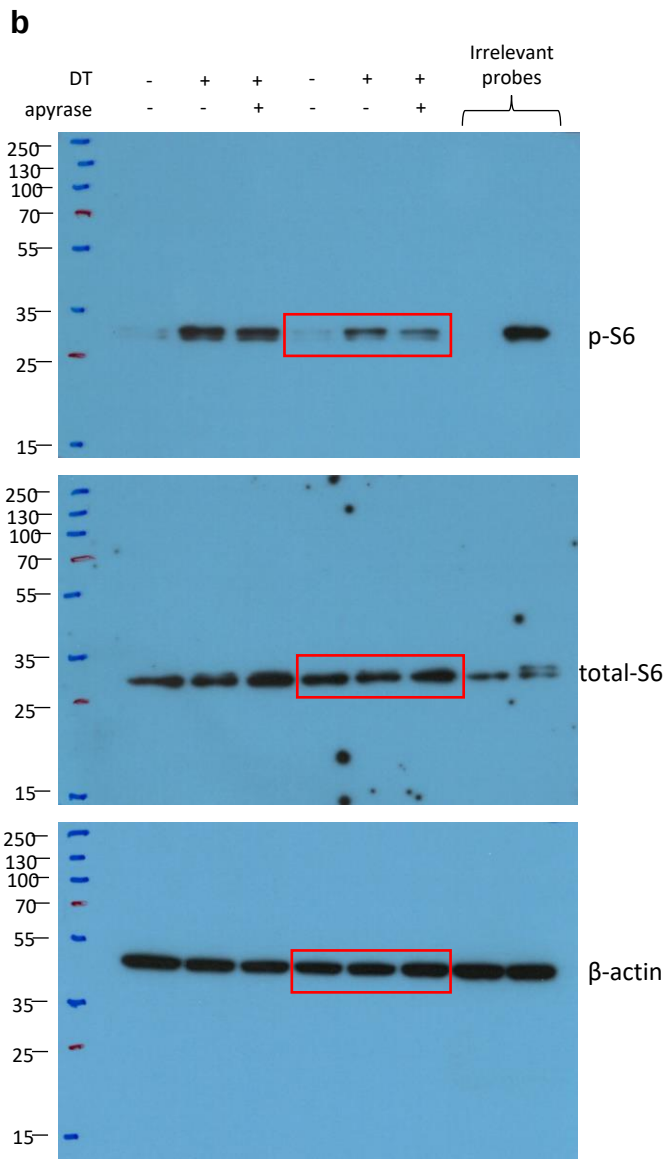


Immunoblot scans for Figure 3a

SI Figure 6



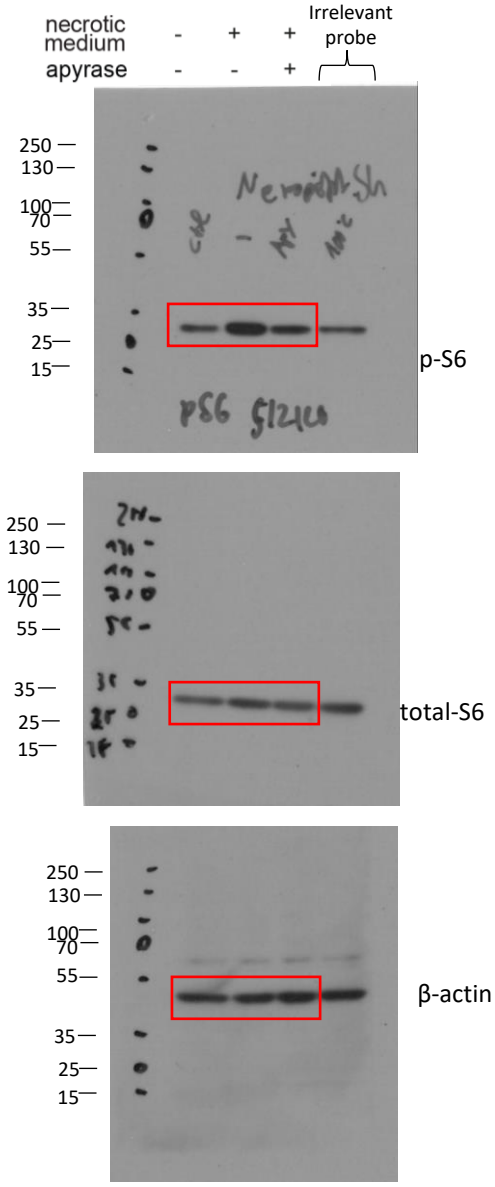
Immunoblot scans for Figure 3c and e



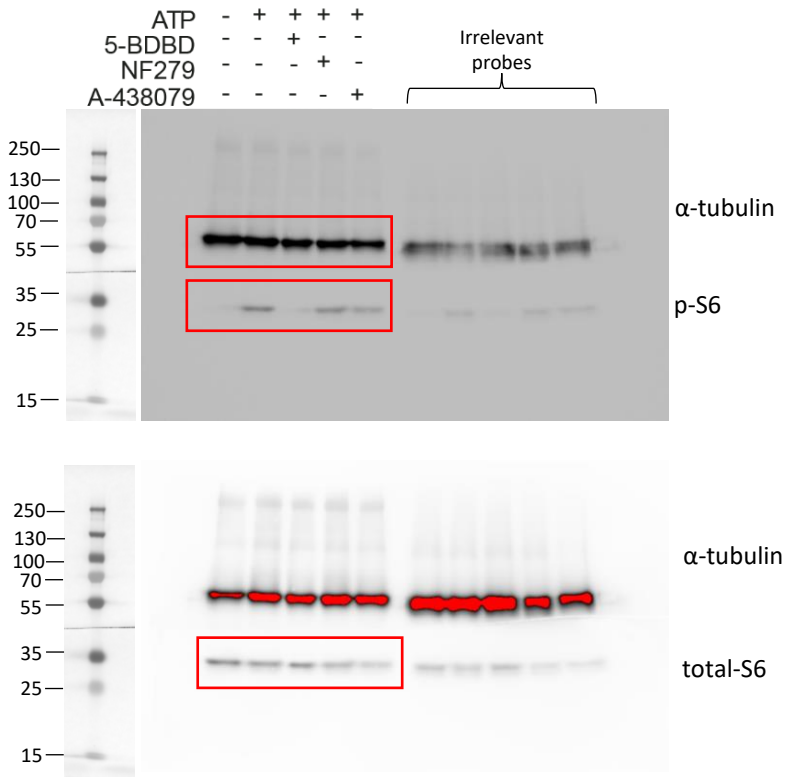
Immunoblot scans for Figure 3f

SI Figure 7

a



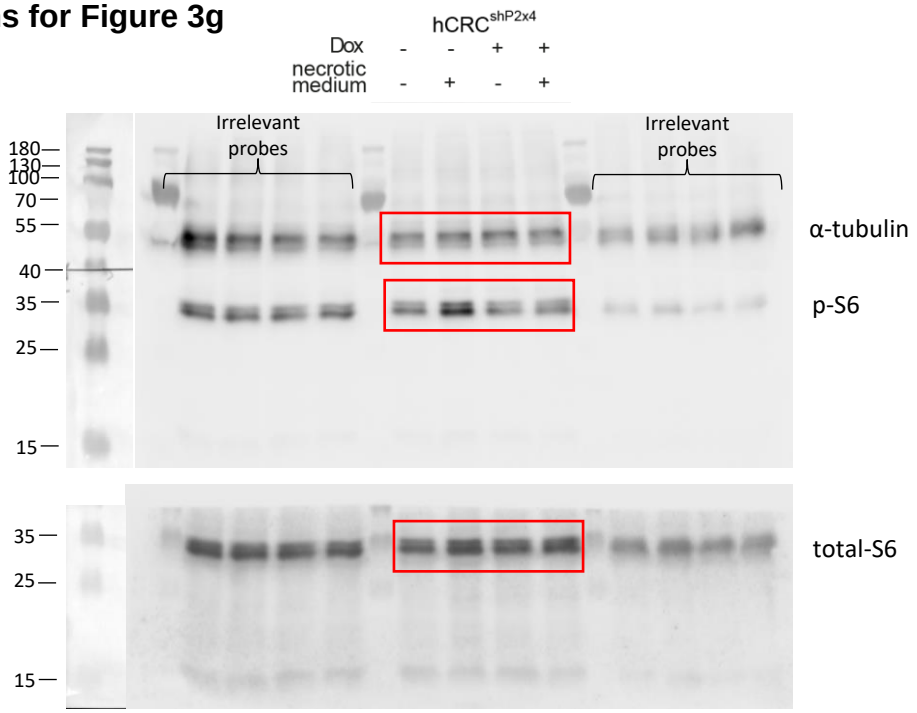
b



Immunoblot scans for Figure 3j

Immunoblotscans for Figure 3g

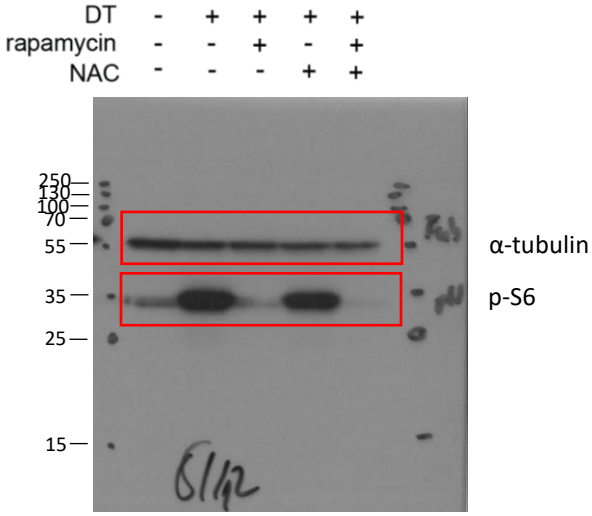
c

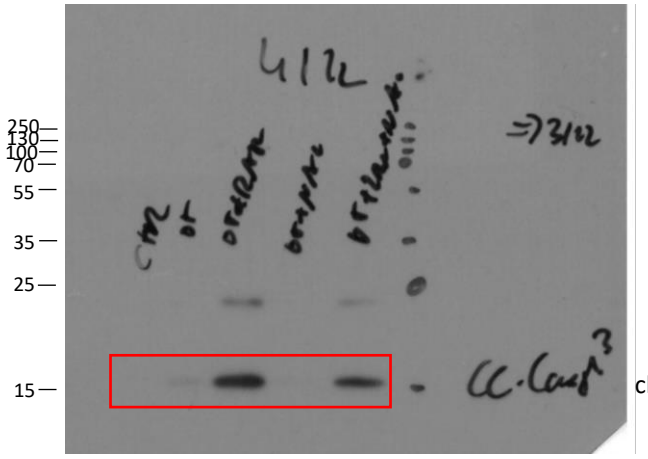


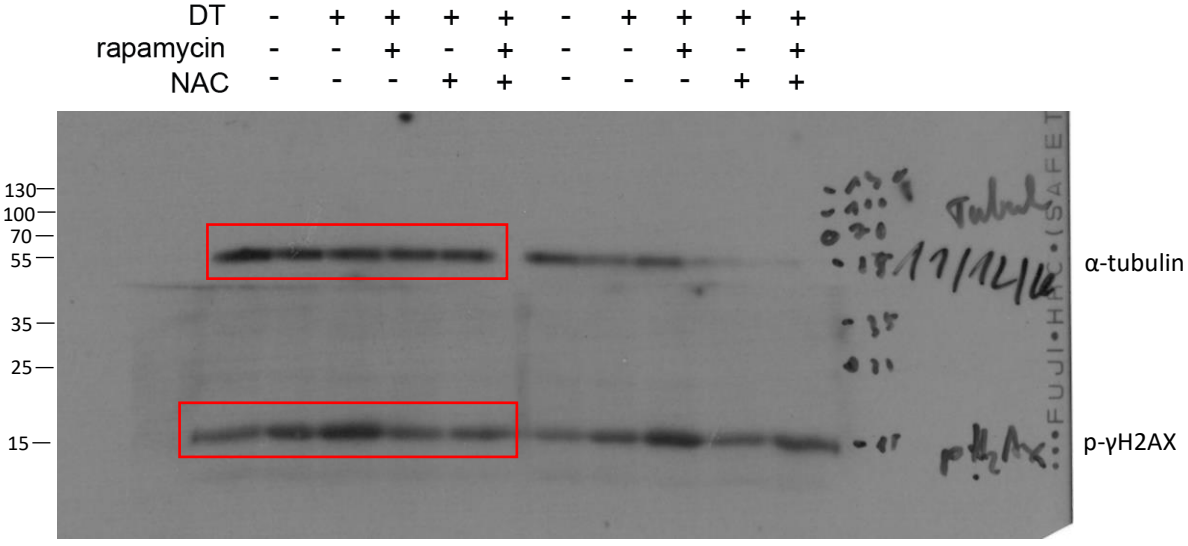
Immunoblot scans for Figure 3l

SI Figure 8

a



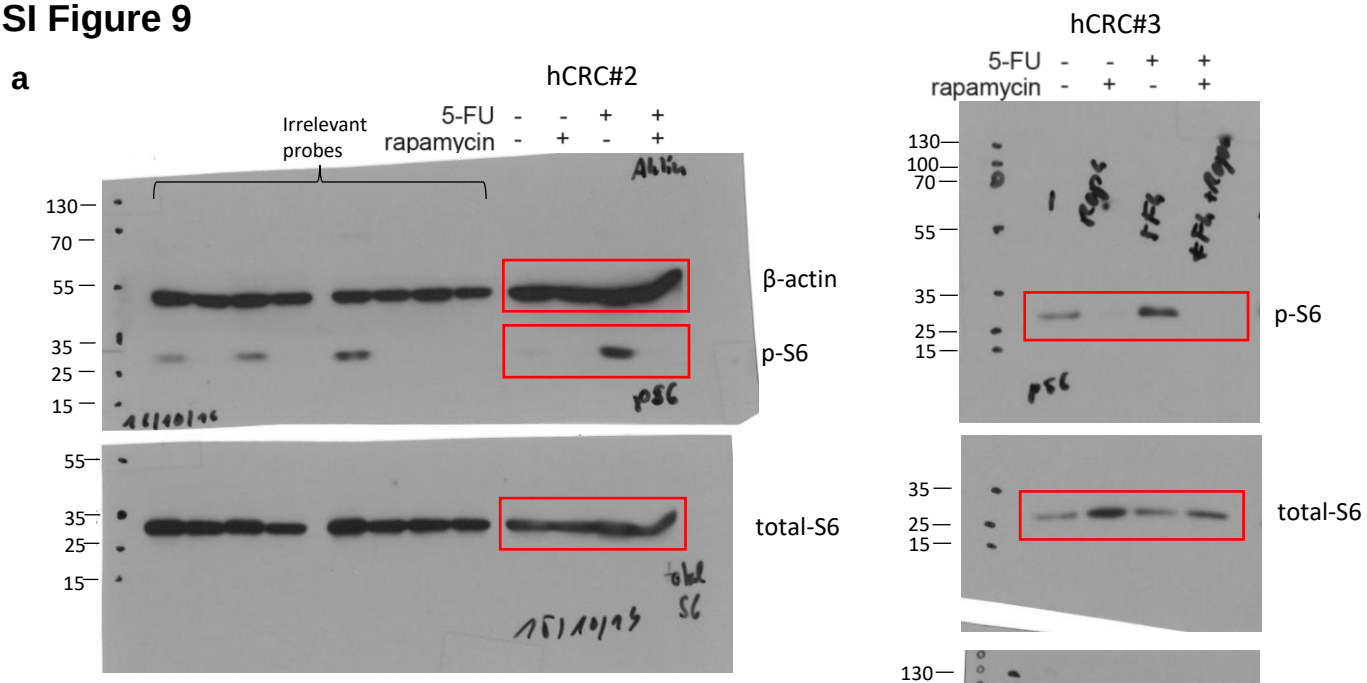




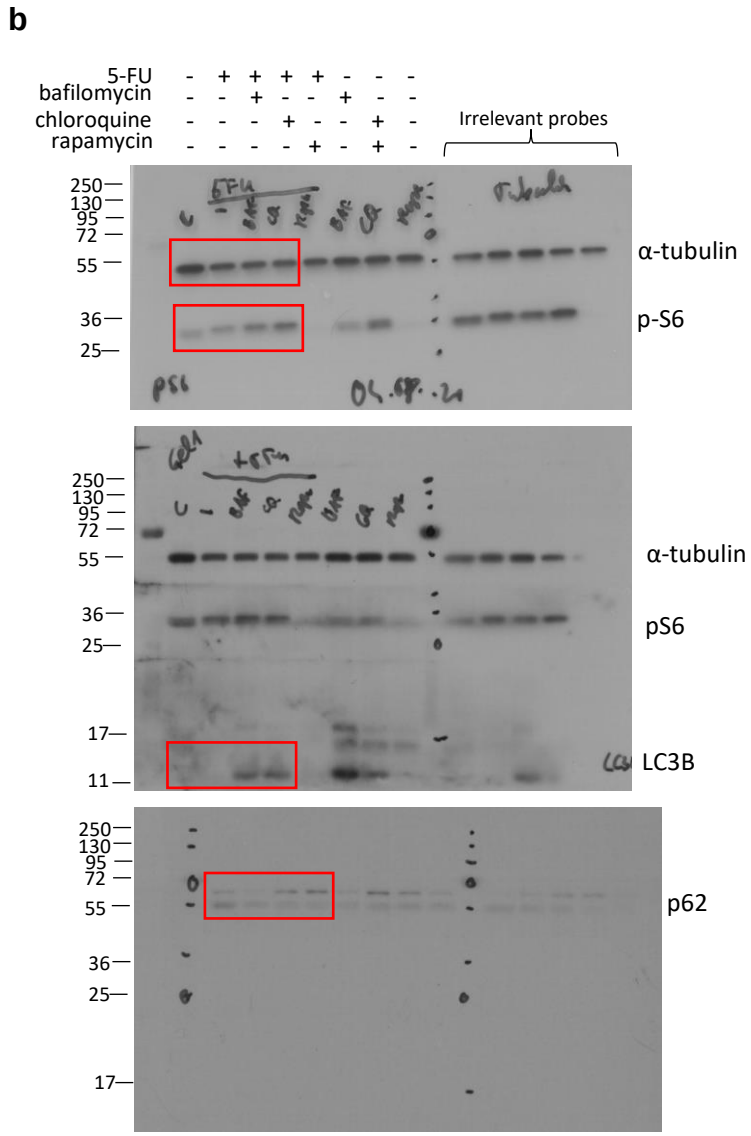
For pγH2AX detection samples had to be reloaded on a separate gel

Immunoblot scans for Figure 4f

SI Figure 9



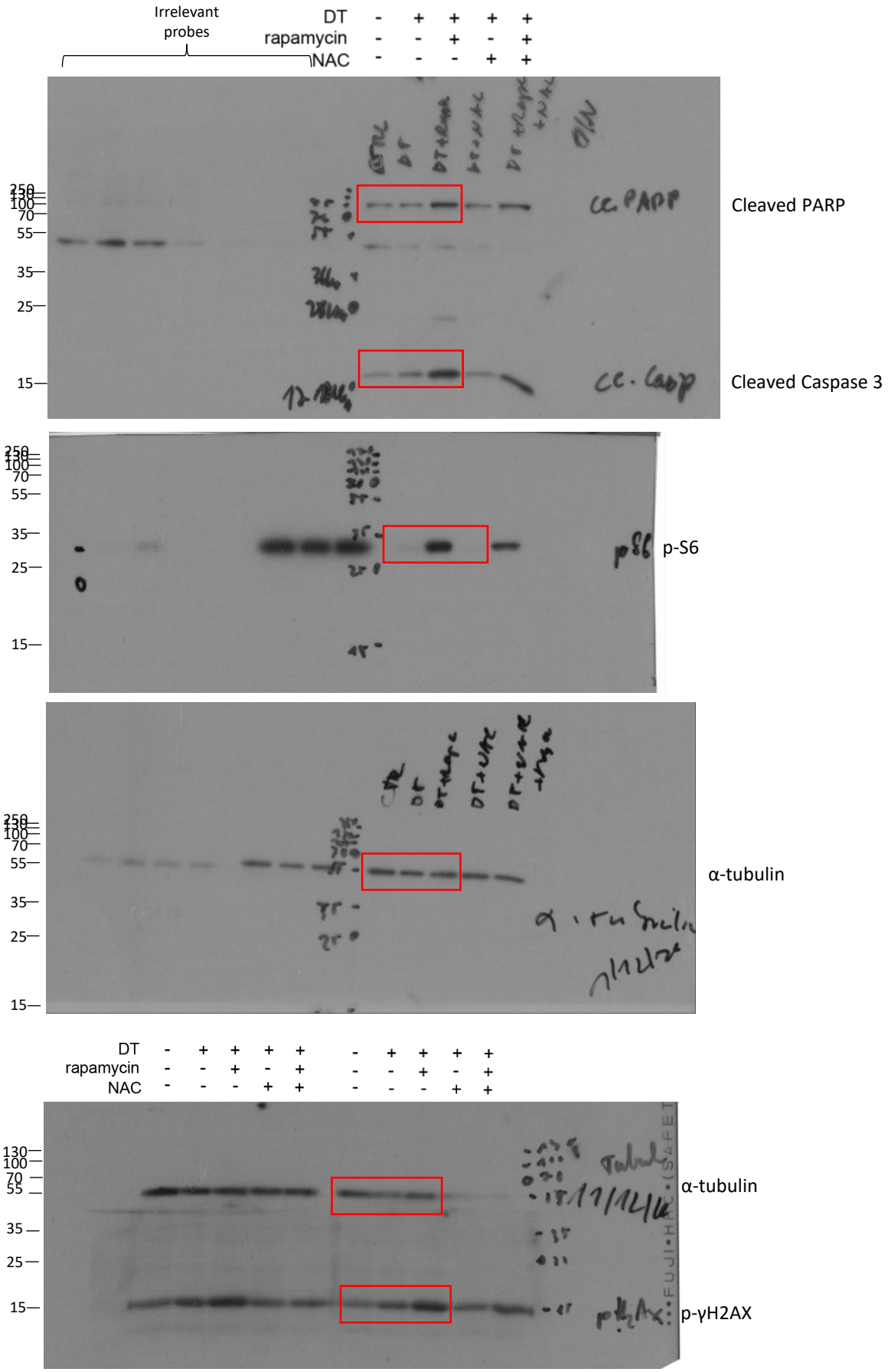
Immunoblot scans for Extended data Figure 1a



Immunoblot scans for Extended data Figure 1i

SI Figure 10

a

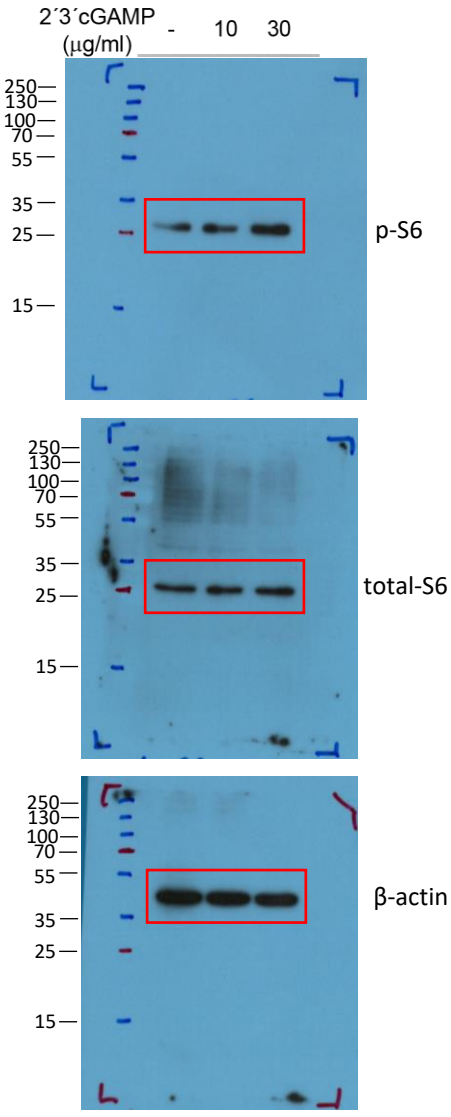


For pγH2AX detection samples had to be reloaded on a separate gel (separated by grid lines in the Figure)

Immunoblot scans for Extended data Figure 2b

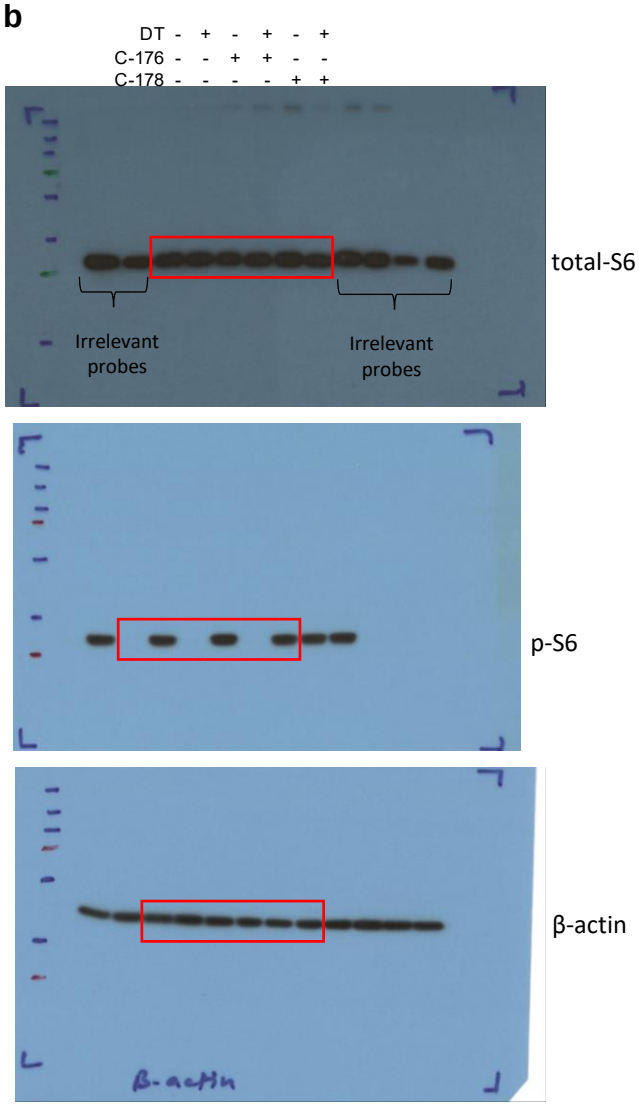
SI Figure 11

a



Immunoblot scans for Extended data Figure 3c

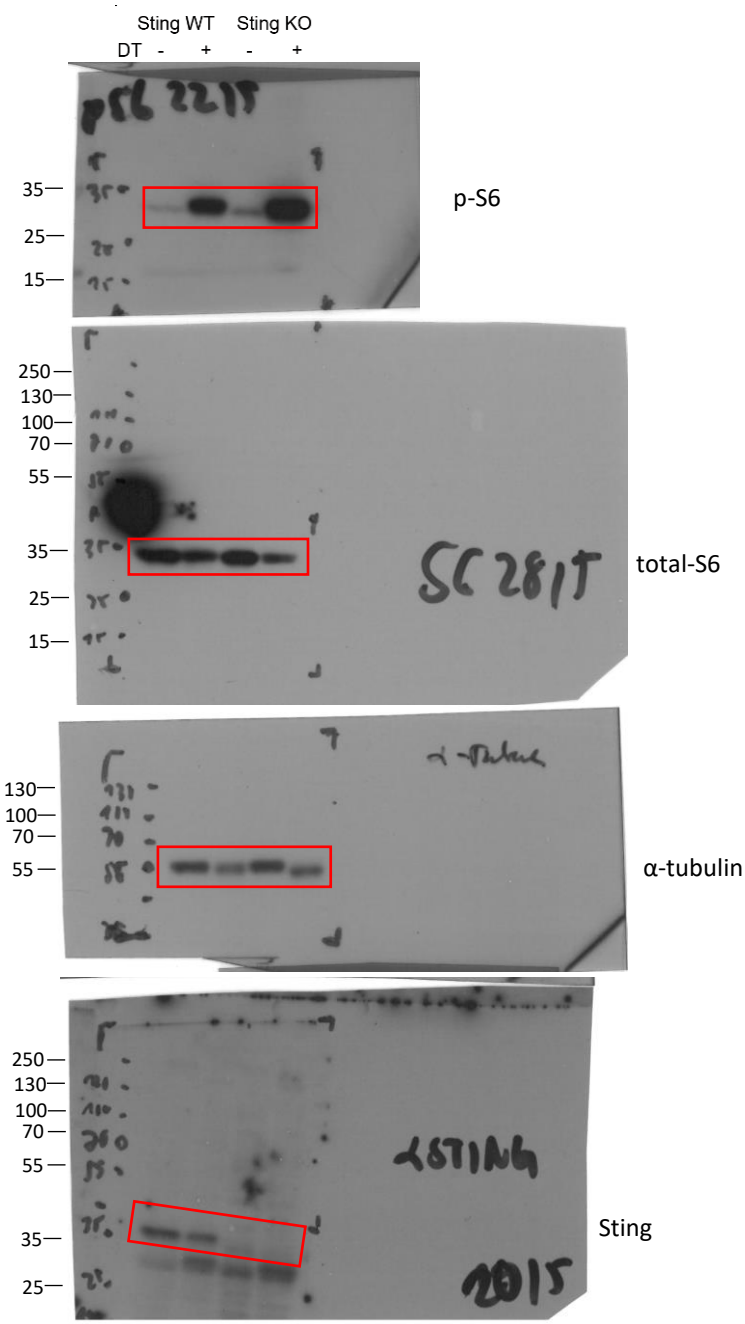
b



Immunoblot scans for Extended data Figure 3d

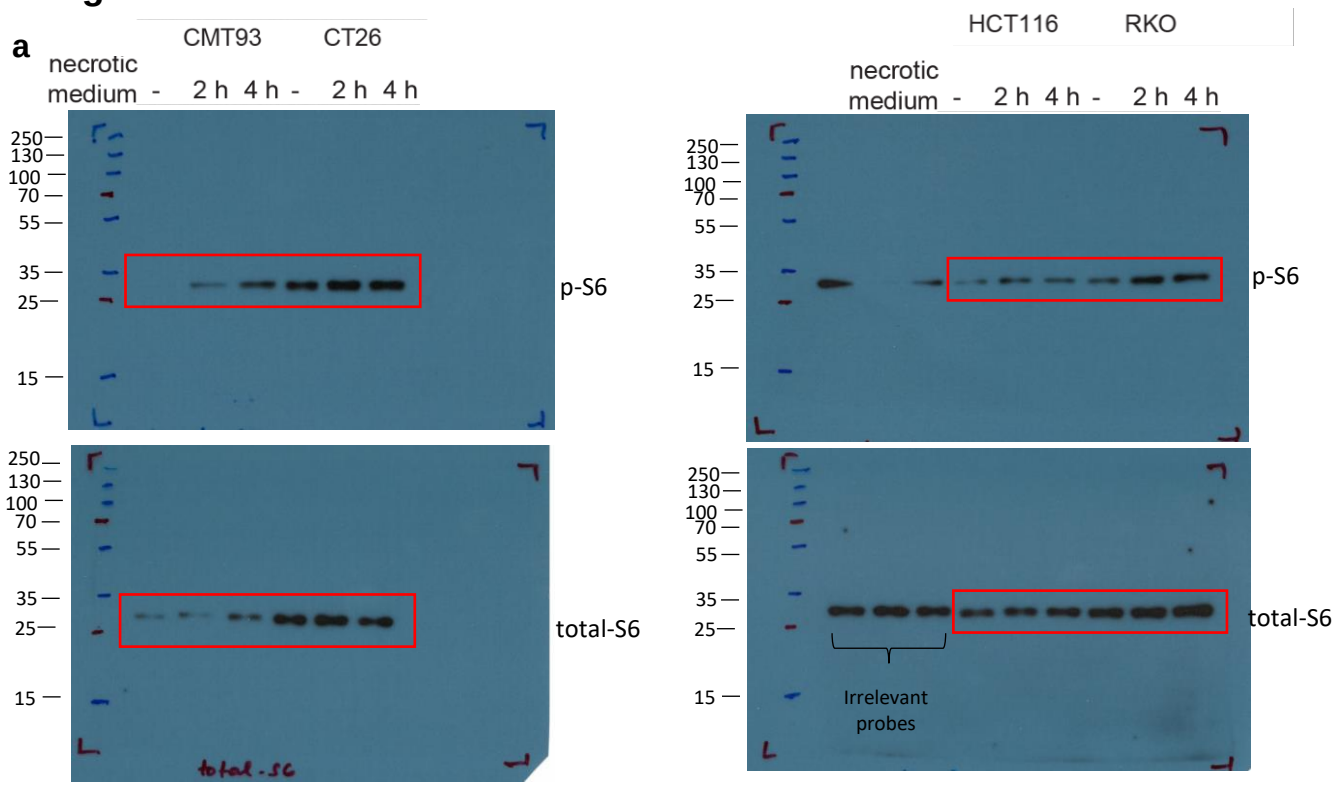
SI Figure 12

a

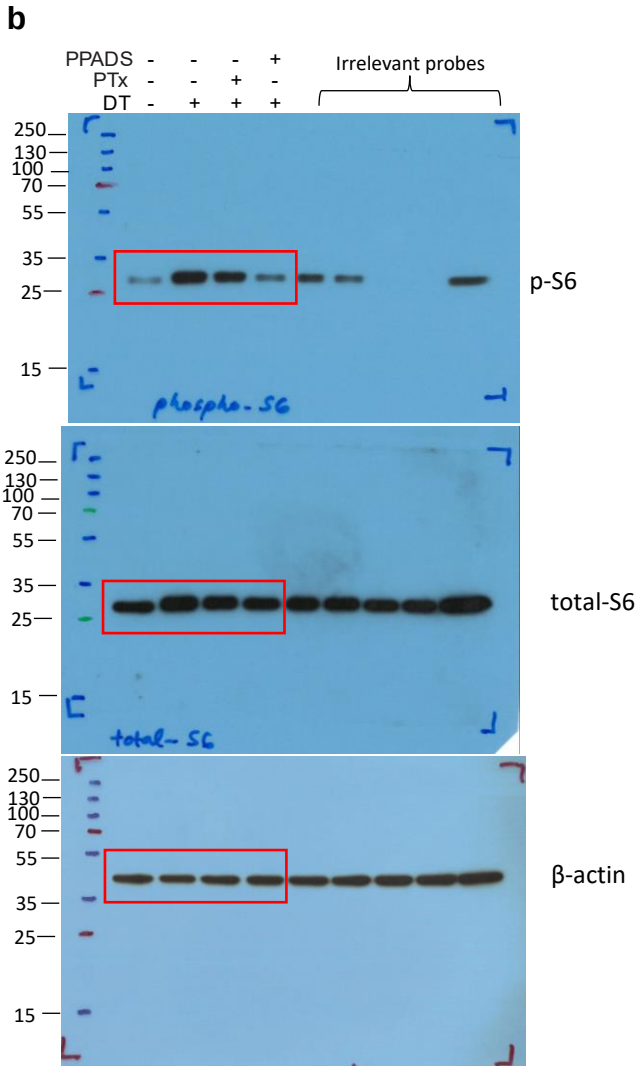


Immunoblot scans for Extended data Figure 3e

SI Figure 13



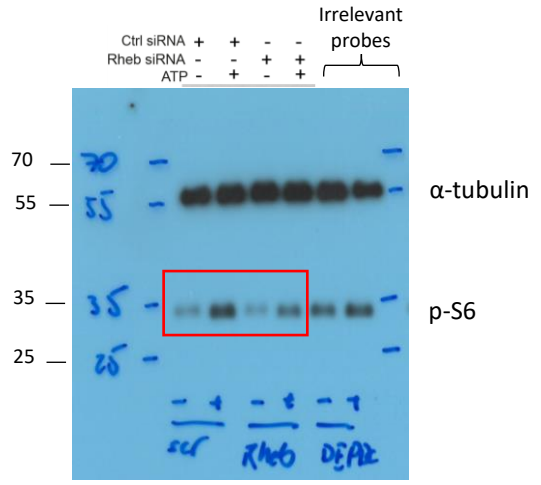
Immunoblot scans for Extended data Figure 3f

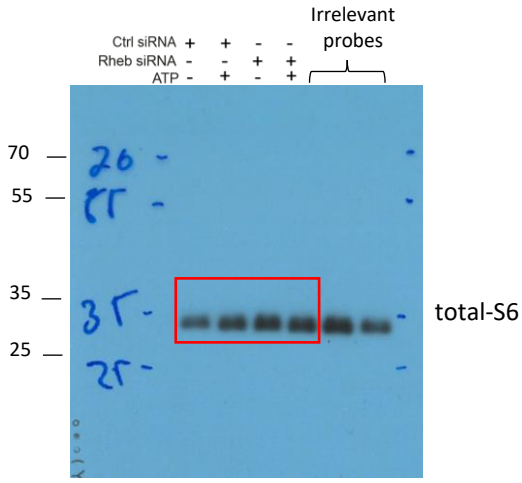


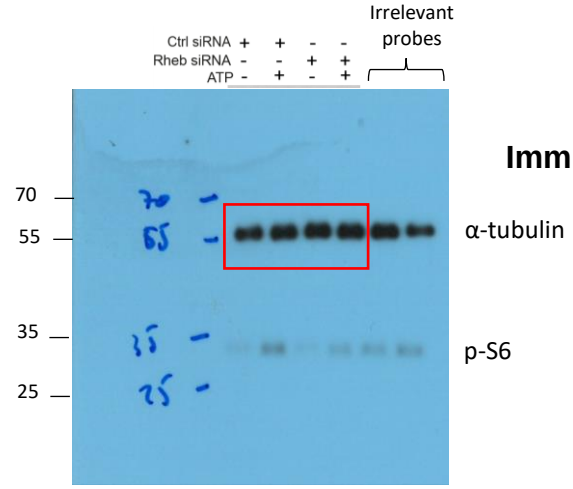
Immunoblot scans for Extended data Figure 3g

SI Figure 14

a

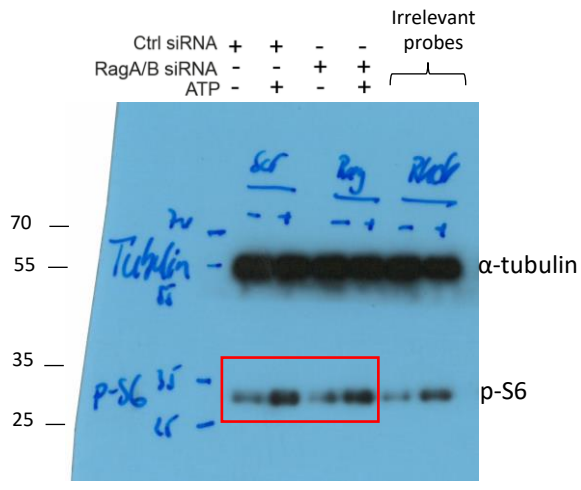


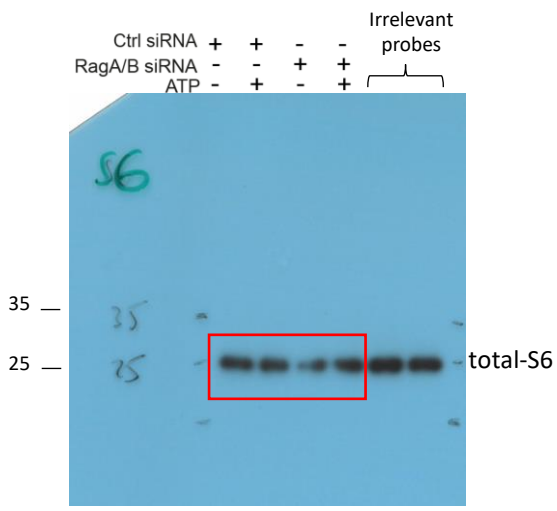


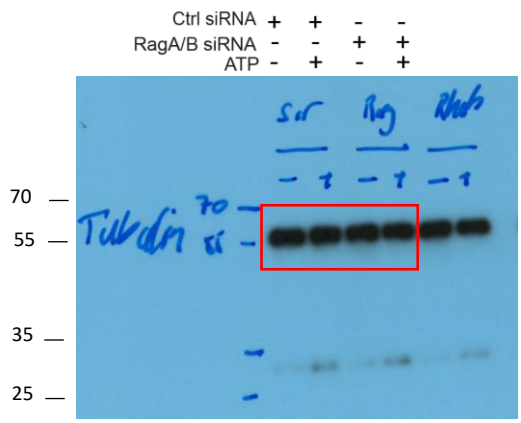


Immunoblot scans for Extended data Figure 3h

b



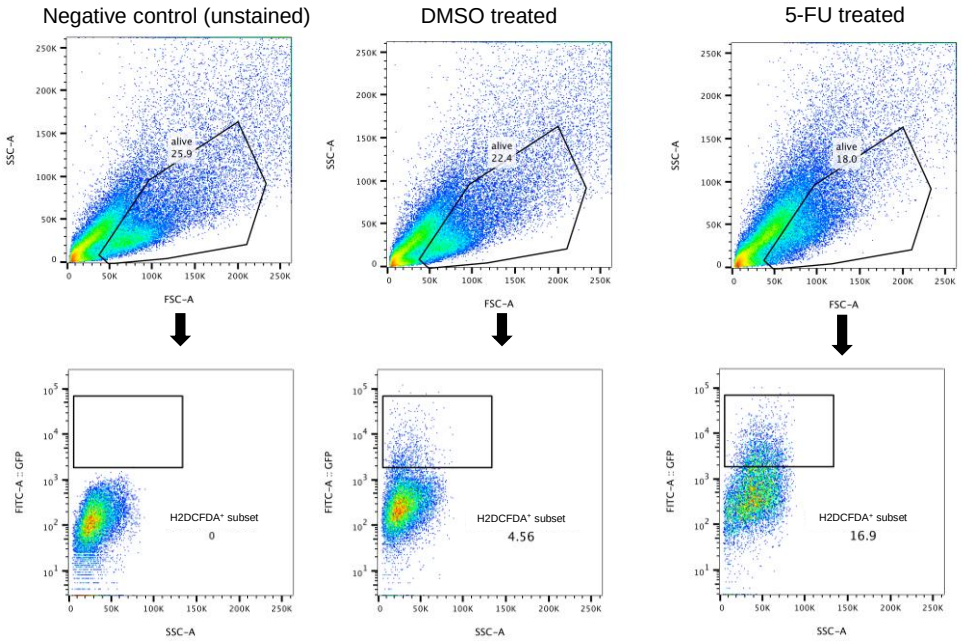




Immunoblot scans for Extended data Figure 3i

SI Figure 15

a



Representation of flow cytometry gating strategy for assessment of H2DCFDA^{+} cells from Figure 4e

SI Table 1

Oligo sequences used in this study

Target	Forward primer	Reverse primer
Isg15	ACCCTTTCCAGTCTGGGTCT	TCGCTGCAGTTCTGTACCAC
Infar1	CACGGTCGCTGTAGAAGTAAAG	TCTCCTCCTCTTCGTTGGAATA
Mx1	ATGTCAGCTCCCCAAATGTCC	TGCCTACAGCCACCCTGG
Ifit1	GCTTTGCGAAGGCTCTGAAA	TGGCGATAGGCTACGACTGC
Ifit2	CACCTCTGGACTGGCAATAGC	AGAGGGTCAATGGCGTTCTG
Ifitm1	TCTTCACCATCCTCACGGC	TGTTGCAAGACATCTCACATCATC
C2ta	GACAGAGCGCCAGCTAGCC	CTCTCCTGGTCGCCTGCA
Irf1	GCTACCTGGGTCAGGACTTG	CAGAGAGACTGCTGCTGACG
Oas	CAAGGTGGTGAAGGGTGGC	TCAAAGCTGGTGAGATTGTTAAGG
Cyclophilin	ATGGTCAACCCCACCGTGT	TTCTGCTGTCTTTGGAACTTTGTC
RagA	GAACCTGGTGCTGAACCTGT	GATGGCTTCCAGACACGATT
RagB	TTCGATTTCTGGGAAACCTG	AGTTCACGGCTCTCCACATC
Rheb	GGCAAGTTGTTGGATATGGTGGG	CCAAGATTCTGCCAAAGCCTTTC
hRaptor	GGACCTGGCTGTTGACATCT	TGCACTTGGCTTAACAGCAC
hRictor	CGGTTGTAGGTTGCCAGTTT	CATGAGGGTGGCAAGAAAGT
hP2RX1	GCTACGTGGTGCAAGAGTCA	GTAGTTGGTCCCGTTCTCCA
hP2RX2	GCTCCTTTCCATCTCACTGG	GGAAGTGAGCAGCCCTGTAG
hP2RX3	ACAGCCAGGGACATGAAGAC	AGCCGGGTGAAGGAGTATTT
hP2RX4	GAGATTCCAGATGCGACC	GACTTGAGGTAAGTAGTGG
hP2RX5	CTGGTCGTATGGGTGTTCCT	CTGGGCTGGAATGACGTAGT
hP2RX6	ACTCTGTGTGGAGGGAGCTG	GGCAAGTGGGTGTCAGAACT
hP2RX7	AAGCTGTACCAGCGGAAAGA	GCTCTTGGCCTTCTGTTTTG
hP2RY1	AAAACTAGCCCCCTGCAACT	GATCTGATGCCGGATGAACT
hP2RY2	CCACCTGCCTTCTCACTAGC	TGGGAAATCTCAAGGACTGG
hP2RY4	CGTCTTCTCGCCTCCGCTCTCT	GCCCTGCACTCATCCCCTTTTCT
hP2RY6	AGCTGGGCATGGAGTTAAGA	GCTGACTGGGACCTCTCAAG
hP2RY11	CCTCTACGCCAGCTCCTATG	CACTGCGGCCATGTAGAGTA
hP2RY12	TTTGCCCGAATTCCTTACAC	ATTGGGGCACTTCAGCATAC
hP2RY13	CCCCTGGTACACTTGGAAGA	TACAGAGGAGGGGGTGATTG
hP2RY14	TCTTTGGGCTCATCAGCTTT	TCCGTCCCAGTTCACTTTTC
mP2RX1	CATGGGGACAGCTCCTTTGT	GAGTGCAGCCACTGTCATCT
mP2RX2	CCAAGGCACCCCTCAAGTAG	CTCTGCCCCTTCTCCCAAAG
mP2RX3	TGCTTCAACCAACCCAGTGT	TAAGAGCCCCTCTTCTCCCC
mP2RX4	CCTGGCTTACGTCATTGGGT	AAGTGTTGGTCACAGCCACA
mP2RX5	TCTACTGCCCCATCTTCCGA	ATAGTGTGGGTTGCAGTGGG
mP2RX6	GCTGCACCATGGACCTACTT	GCTTCAGGTGAGCTGTTCCT
mP2RX7	GCACGAATTATGGCACCGTC	CCCCACCCTCTGTGACATTC
mP2RY1	TTATGTCAGCGTGCTGGTGT	ACGTGGTGTCATAGCAGGTG
mP2RY2	TCAAACCGGCTTATGGGACC	GGCAGCTGAGGTCAAGTGAT
mP2RY4	GCTCTATCTGTTCACGGGGG	AGGGAGGAAGCAGTTGTTCG
mP2RY6	GGGTAGTGTGTGGAGTCGTG	AGCGAGTAGACAGGATGGGT
mP2RY12	TGCTGTACACCGTCCTGTTC	CGGCTCCCAGTTTAGCATCA
mP2RY13	GCATCAGGTGGTCAGTCACA	GTGGGGCAAAGCAGACAAAG
mP2RY14	CCACATTGCCAGAATCCCCT	AGCCGAGAGTAGCAGAGTGA

SI Table 2

shRNA guide sequences used in the study

Target	Guide sequence
P2x4_sh849	TCTCATAGGTGAAGAAGTCGGA
P2x4_sh877	TTCCATTTTGTAGTACTTGGCA
Rictor_sh4860	TAATCTTAGAACTTCTTTGCGA
Rictor_sh5055	TTGTAGAAACTGTACATCTTGA
Raptor_sh973	TAAGGCAACACTGACTGTCTTC
Raptor_sh4182	TTGTTGATGAGCTCTCCGCTGC
Tgfr2	GGCCGCTGCATATCGTCCTG

SI Table 3

Sequences of siRNAs used in this study

Name	Target sequence
ON-TARGET plus SMARTpool siRNA J-057667-09, Rraga	GAAUUCACCUGACGCCAAA
ON-TARGET plus SMARTpool siRNA J-057667-10, Rraga	UCUUAGUAUUGGACGCUAU
ON-TARGET plus SMARTpool siRNA J-057667-11, Rraga	GGGACAACAUCUUCCGUAA
ON-TARGET plus SMARTpool siRNA J-057667-12, Rraga	GAAAGAGCGGGUCGGGGAA
ON-TARGET plus SMARTpool siRNA J-066440-05, Rragb	GCGUUUAUCGCGUCCGCUA
ON-TARGET plus SMARTpool siRNA J-066440-06, Rragb	AUGUAUACGUAGGCGAUAU
ON-TARGET plus SMARTpool siRNA J-066440-07, Rragb	GGAAAUGAACCUGCGGAAU
ON-TARGET plus SMARTpool siRNA J-066440-08, Rragb	GCGAGAUGCCCACCGAUUU
ON-TARGETplus SMARTpool siRNA J-057044-05, Rheb	GCCAAUUUGUUGAUUCCUA
ON-TARGETplus SMARTpool siRNA J-057044-06, Rheb	GCUCGGUGAUGUGACAAUU
ON-TARGETplus SMARTpool siRNA J-057044-07, Rheb	UUAAAGUUAUCCAUGGCAA
ON-TARGETplus SMARTpool siRNA J-057044-08, Rheb	CCAAGUUGAUCACGGUAAA
ON-TARGETplus Non-targeting Pool	UGGUUUACAUGUCGACUAA, UGGUUUACAUGUUGUGUGA, UGGUUUACAUGUUUUCUGA, UGGUUUACAUGUUUUCCUA