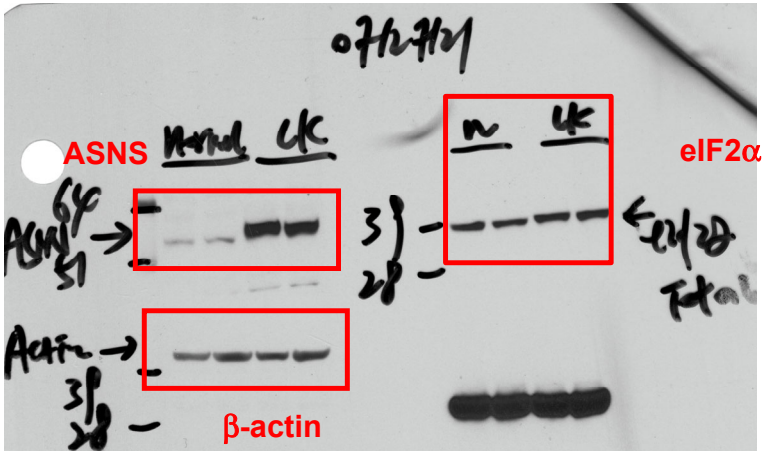
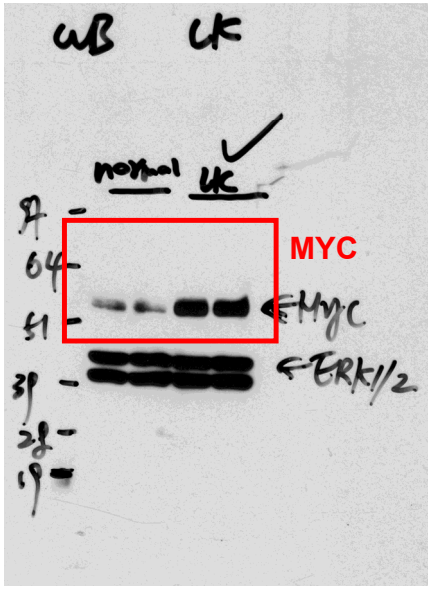
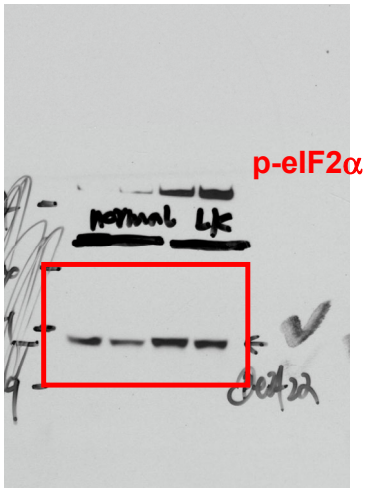
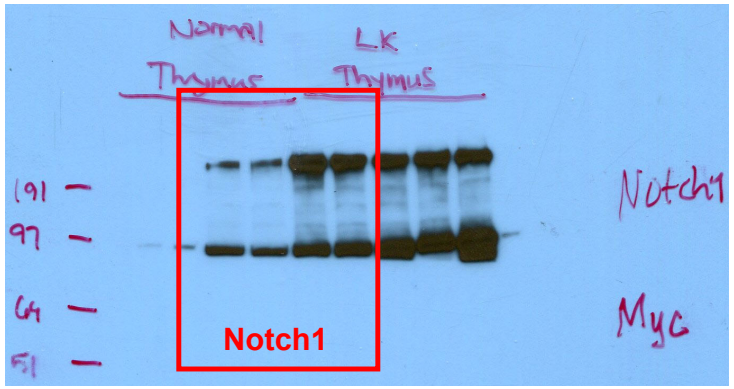
Figure 1E


ASNS
eIF2α
β-actin


MYC


p-eIF2α (S51)


Normal Thymus
LK Thymus
Notch1
Myc
Notch1

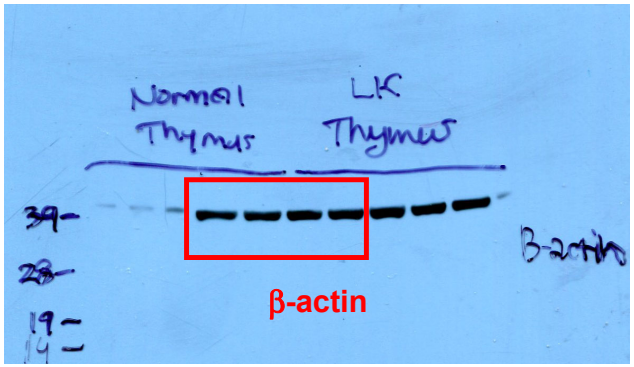
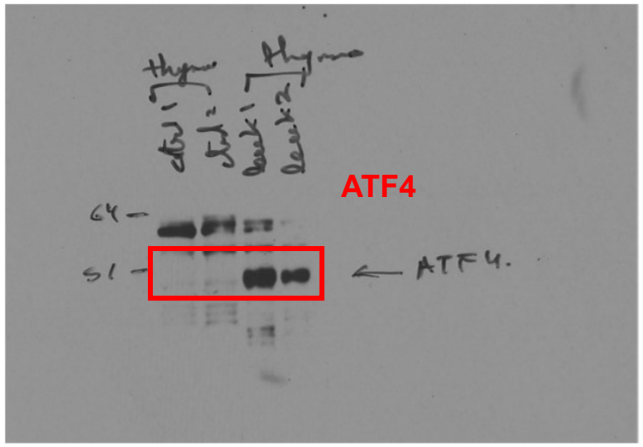

Normal Thymus
LK Thymus
β-actin

Figure 1E



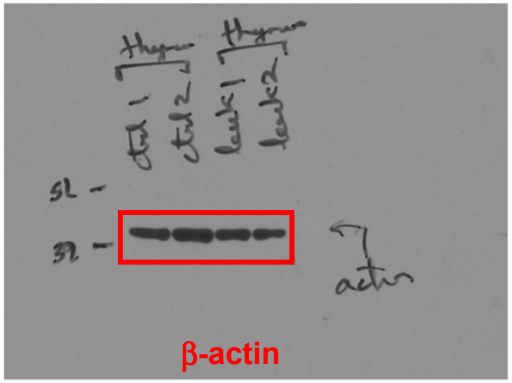
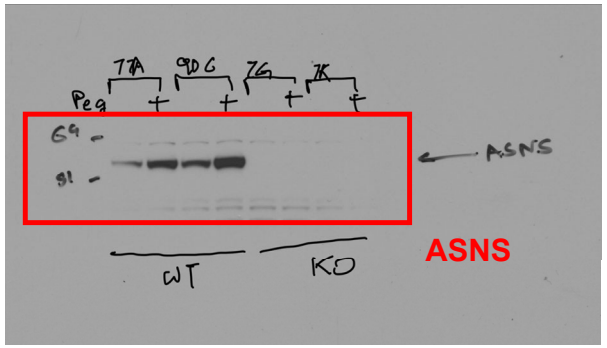
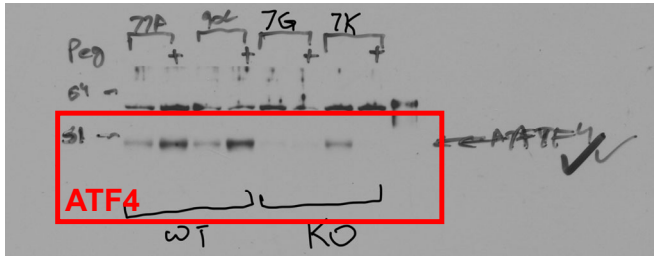
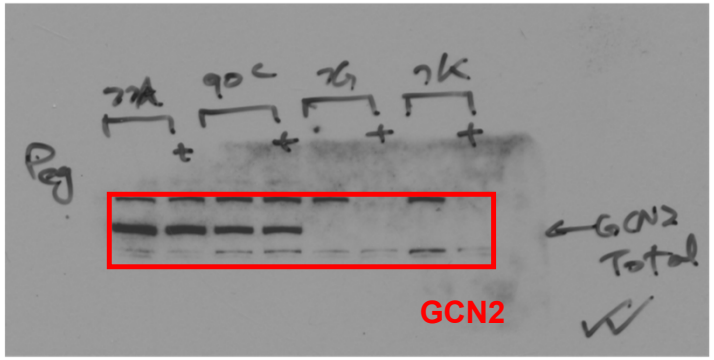


Figure 2D







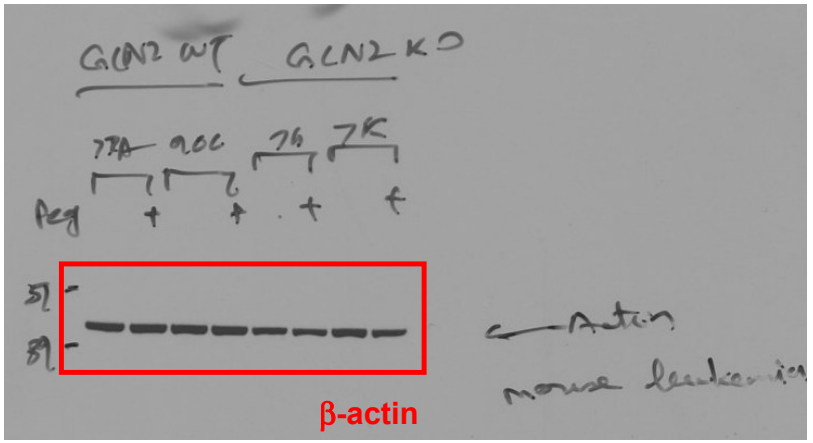
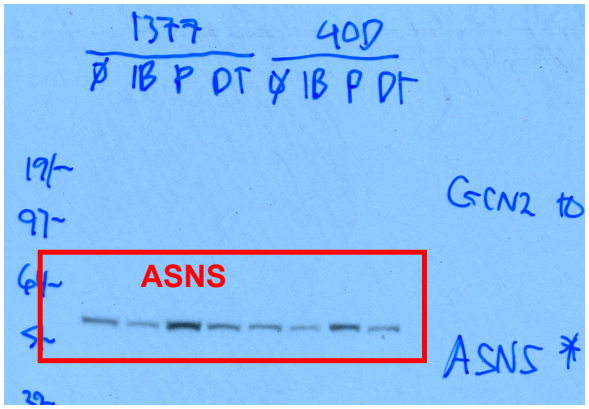
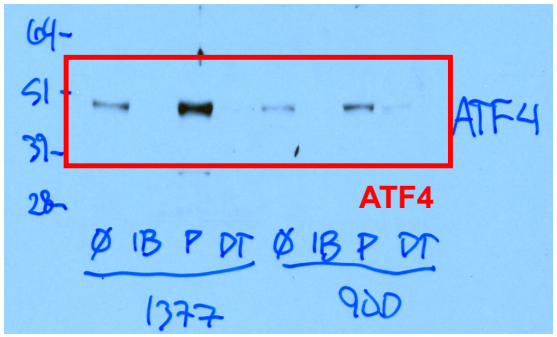
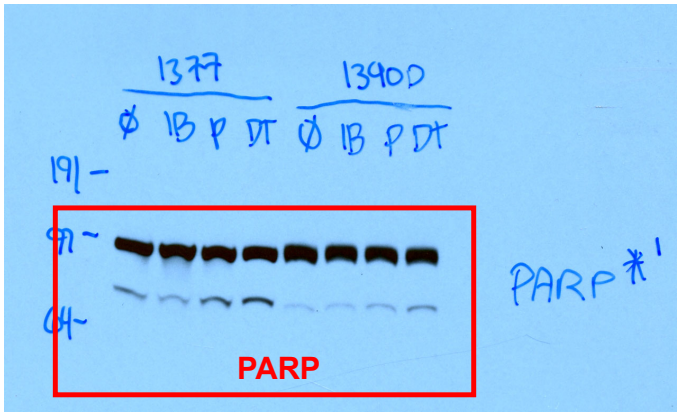


Figure 3B


1377
400
Ø IB P DT Ø IB P DT
191-
97-
64-
ASNS
GCN2 to
ASNS *


64-
51-
39-
28-
ATF4
ATF4
Ø IB P DT Ø IB P DT
1377
900


1377
1390D
Ø IB P DT Ø IB P DT
191-
97-
64-
PARP
PARP *'

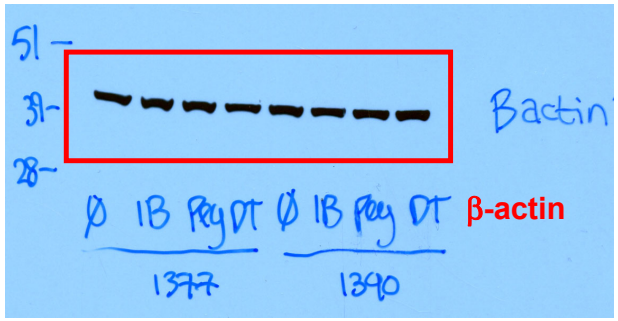

51-
39-
28-
Bactin
Ø IB P DT Ø IB P DT
β-actin
1377
1390

Figure 3D

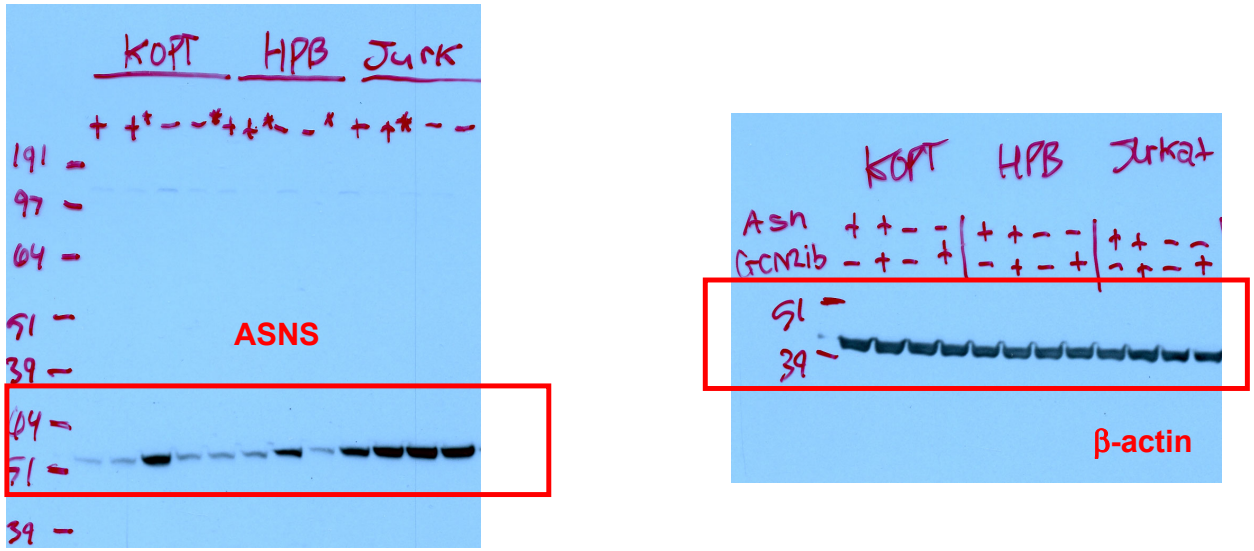
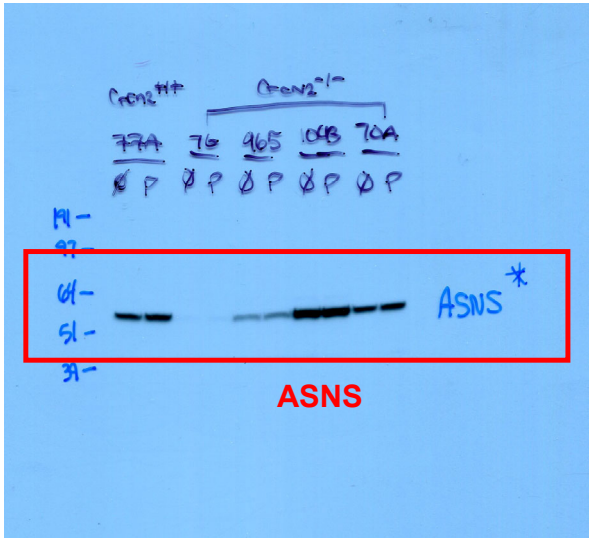
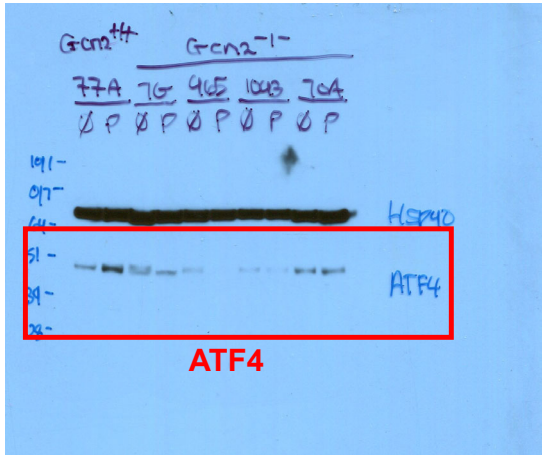
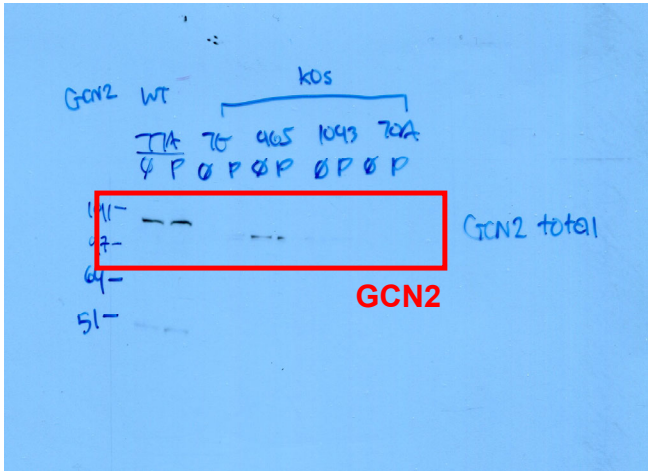

KOPT
HPB
Jurk
191
97
64
51
39
ASNS
64
51
39
KOPT
HPB
Jurkat
Asn
GCN2ib
51
39
β-actin

Figure 4A (Left)







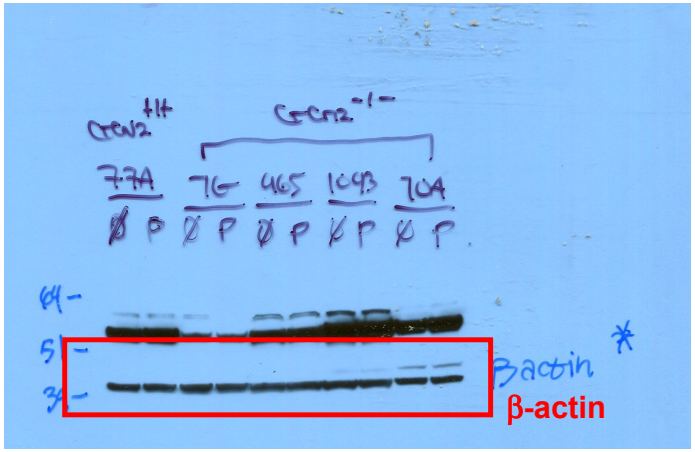
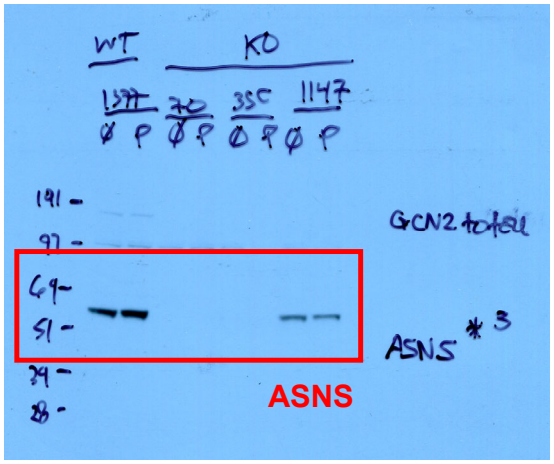
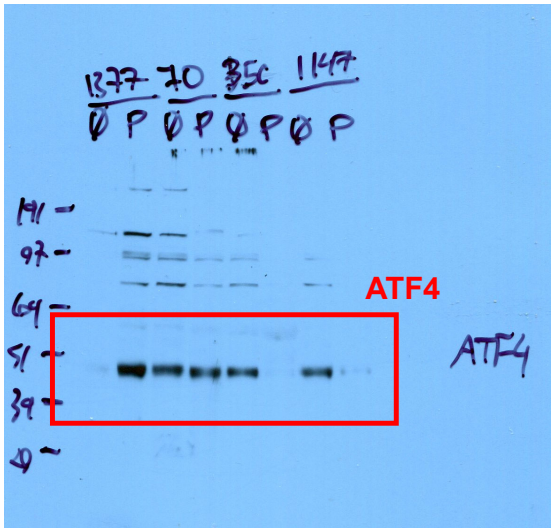
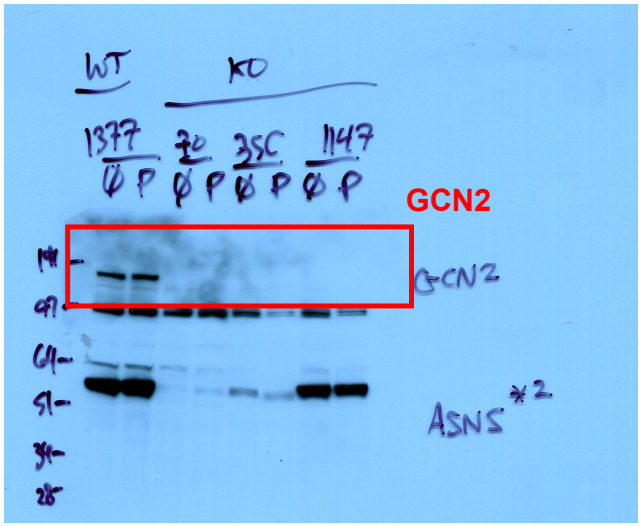


Figure 4A (Right)







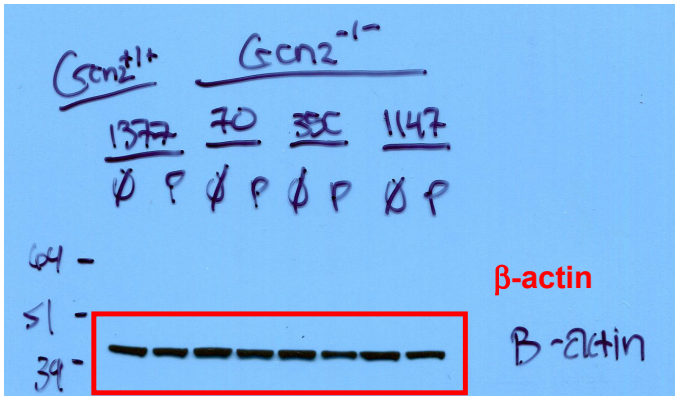
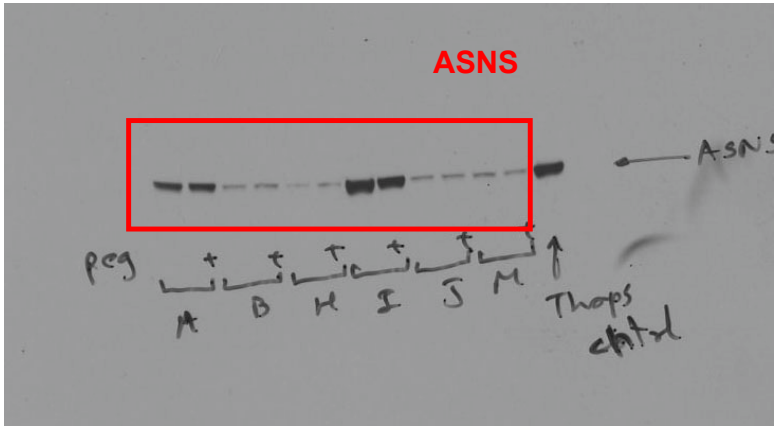


Figure 4F


ASNS
ASNS
Peg
A
B
H
I
J
M
Thaps
ctrl

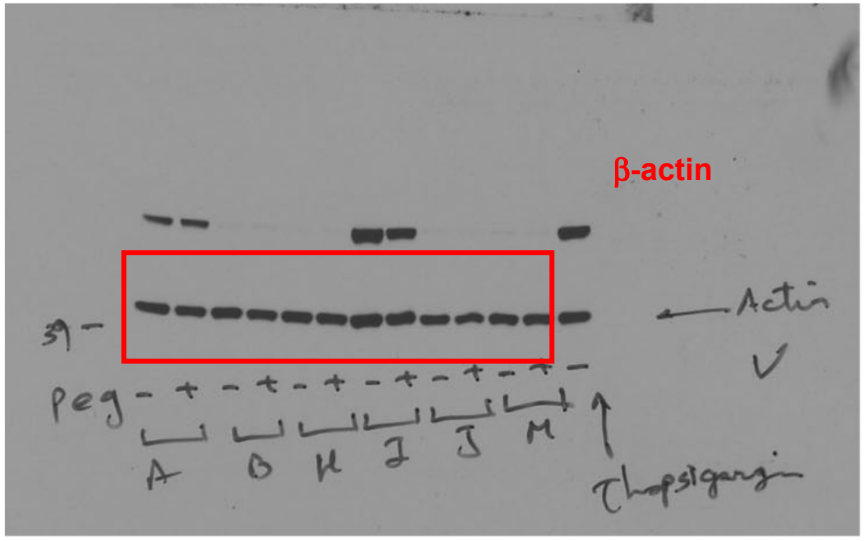
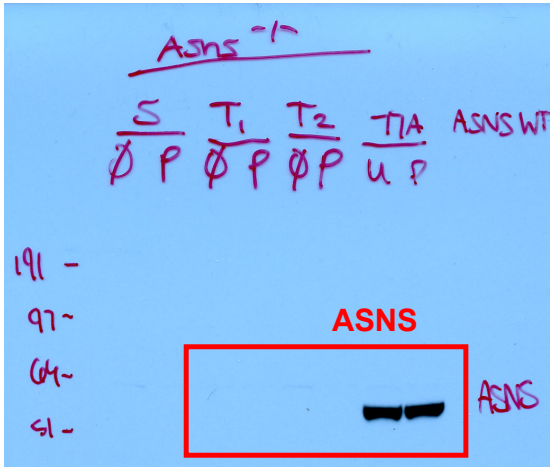
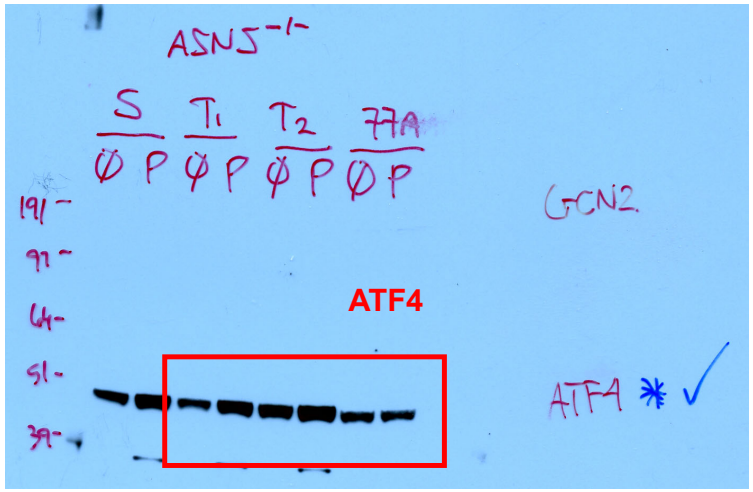

β-actin
Actin
39-
Peg
A
B
H
I
J
M
Thapsigargin

Figure 5A


Asns -/-
S
T1
T2
77A
ASNS WT
ASNS
ASNS


ASNS -/-
S
T1
T2
77A
GCN2
ATF4
ATF4

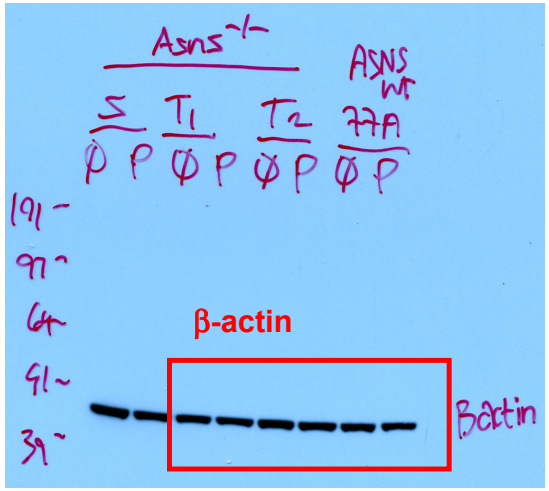

Asns -/-
ASNS WT
S
T1
T2
77A
β-actin
Bactin

Figure 5C

Labeling of Nalm-6 and Reh was swapped

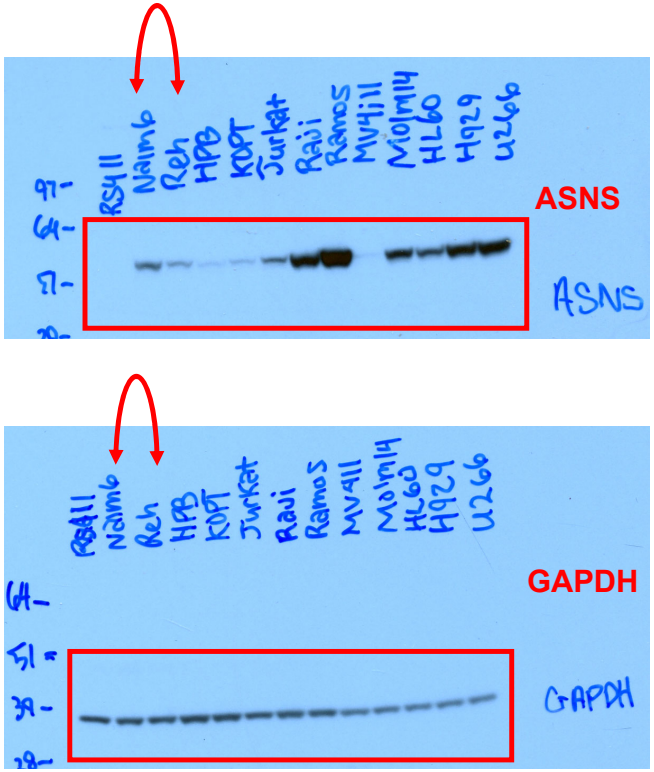
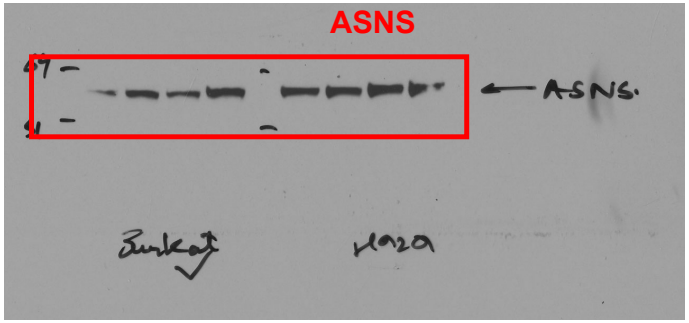
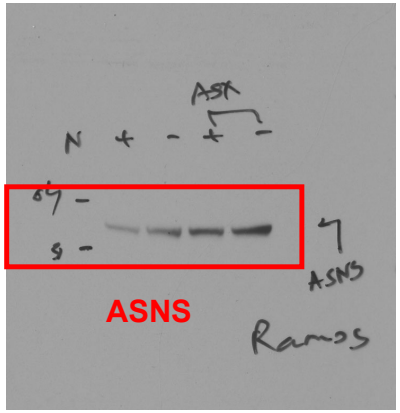
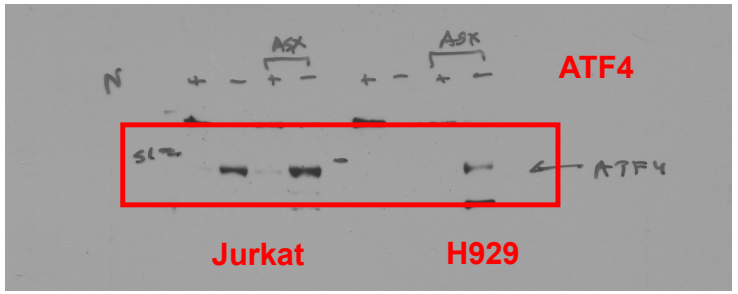
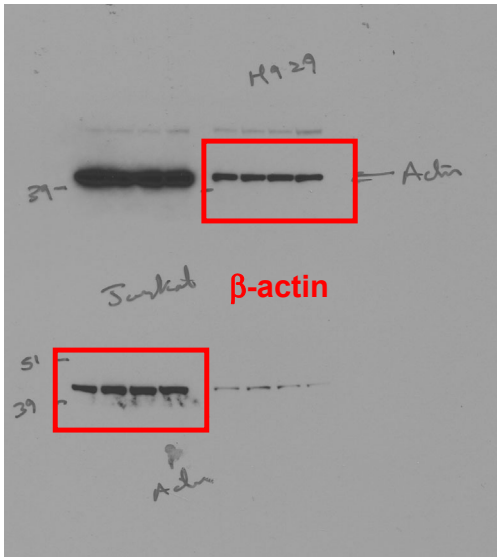


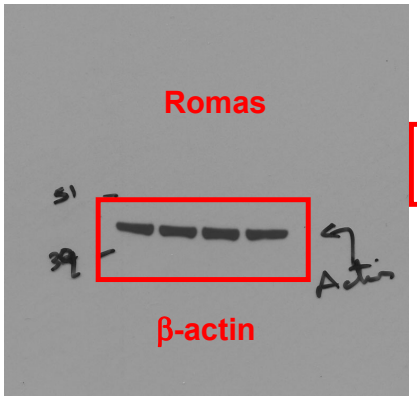
Figure 5H

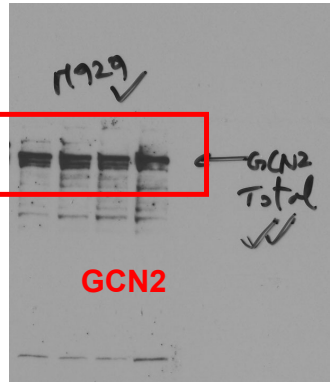

ASNS
ASNS
Jurkat
H929

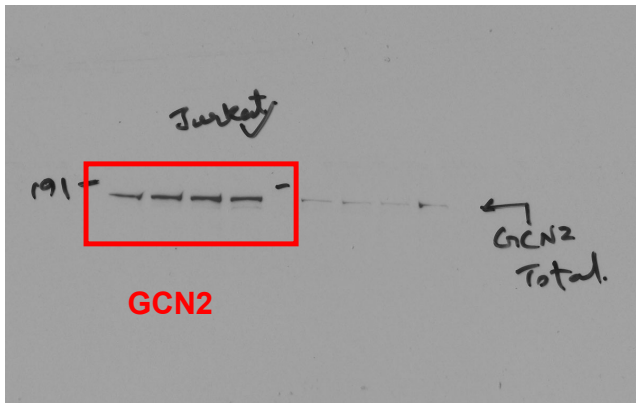

ASX
N + - + -
64
39
ASNS
ASNS
Ramos


ASX
ASX
N + - + - + - + -
ATF4
ATF4
Jurkat
H929


H929
Actin
β-actin
Jurkat
51
39
Actin


Romas
51
39
Actin
β-actin


H929
GCN2
Total
GCN2


Jurkat
191
GCN2
Total
GCN2

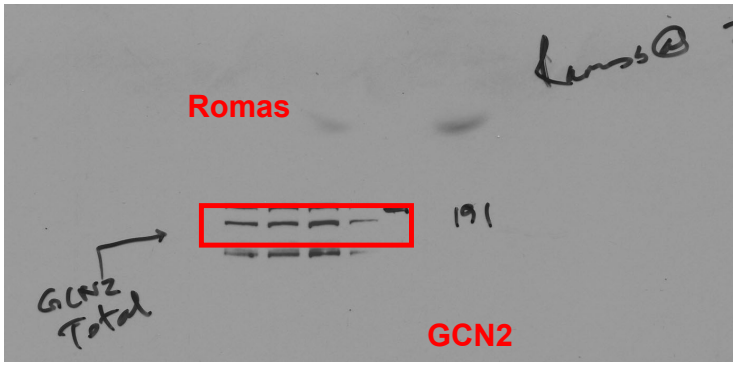
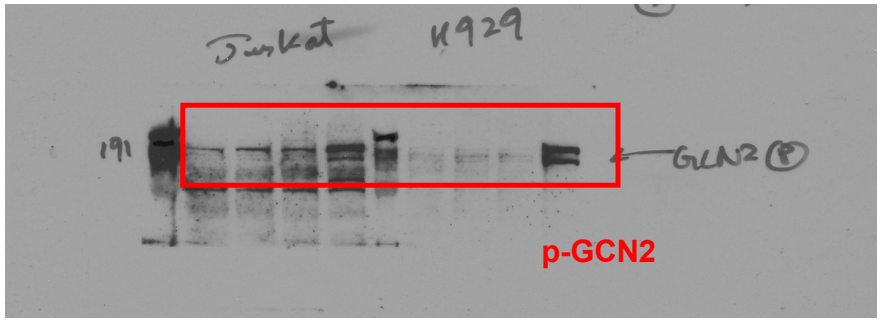
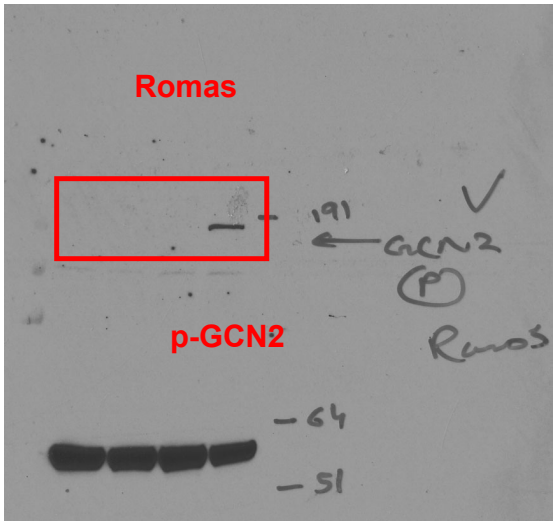
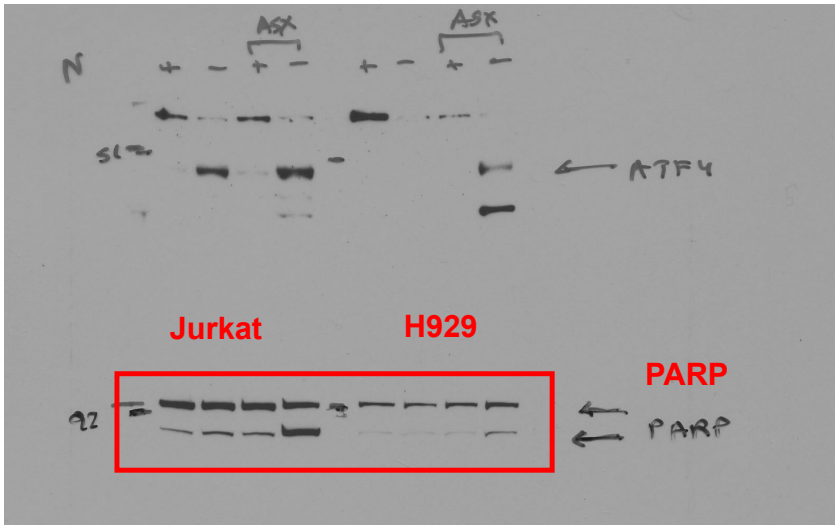

Romas
191
GCN2
Total
GCN2

Figure 5H


Jurkat
H929
191
GCN2 (P)
p-GCN2


Romas
191
GCN2
(P)
p-GCN2
Ramos
64
51


ASX
ASX
N
ATF4
Jurkat
H929
PARP
92
PARP

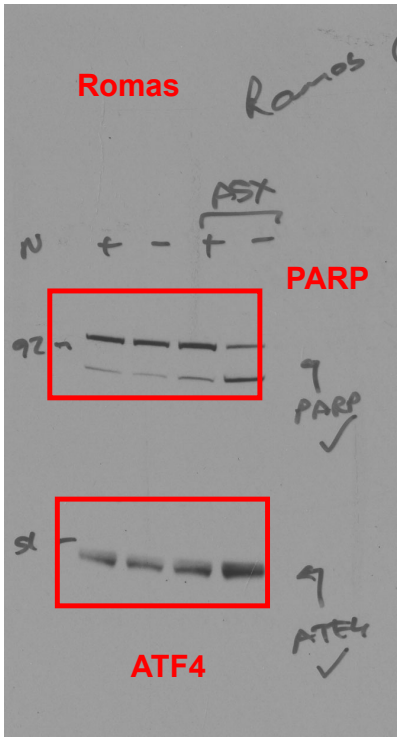
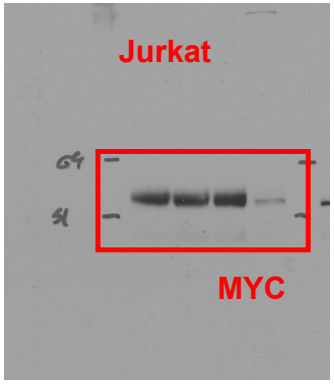
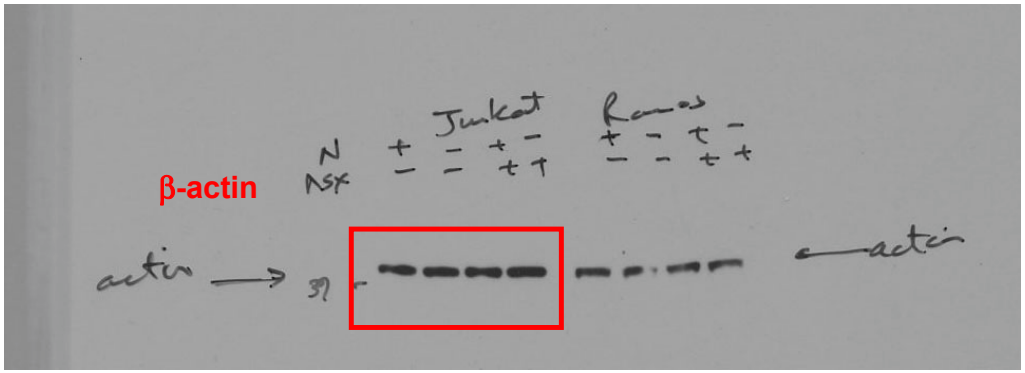
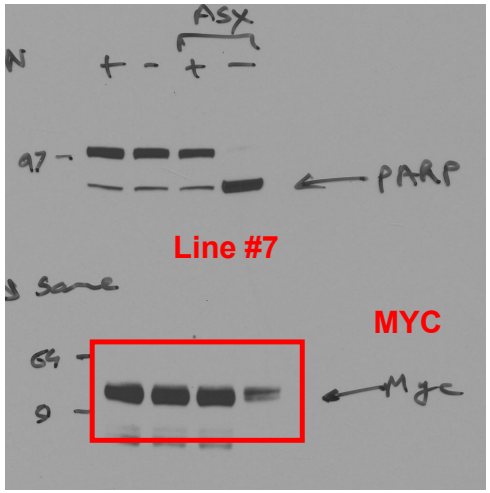
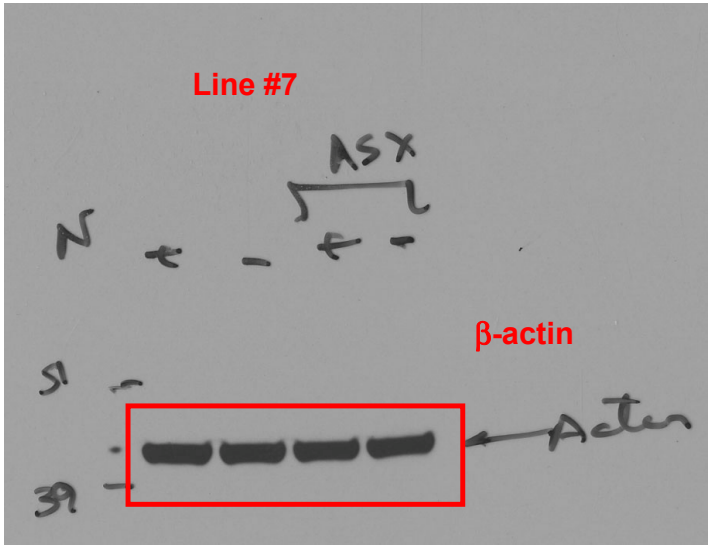

Romas
Ramos
ASX
N
PARP
92
PARP
ATF4
ATF4

Figure 6H

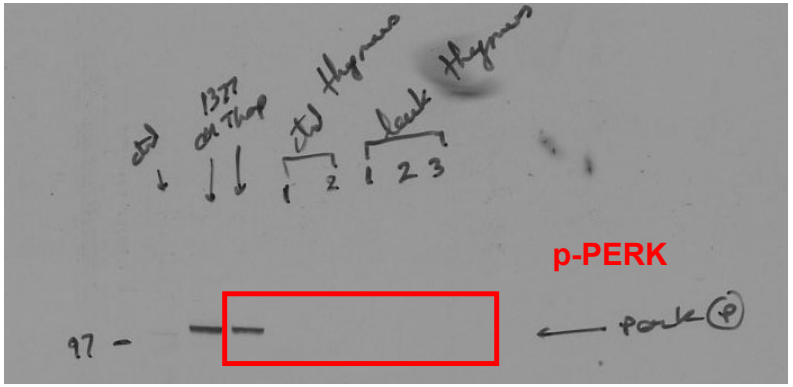

Jurkat
MYC

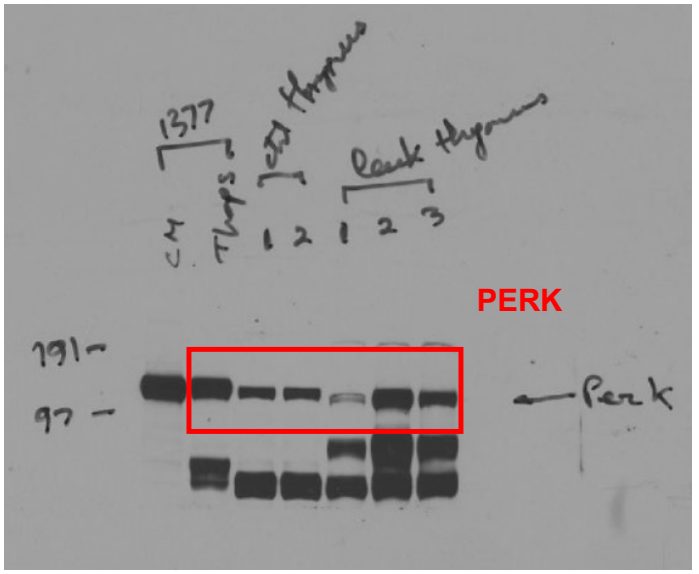

β-actin
Jurkat
Ramos
N
ASX
actin
actin

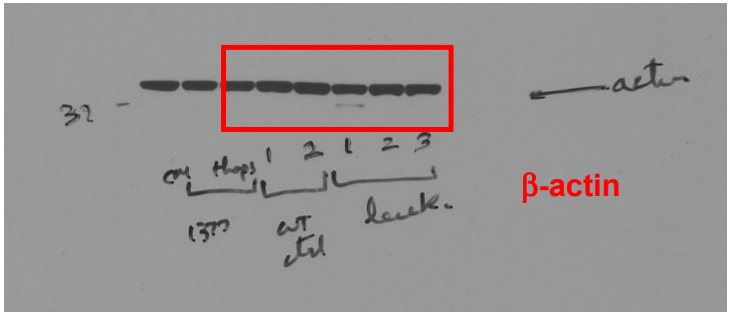

ASX
N
PARP
Line #7
MYC
Myc


Line #7
ASX
N
β-actin
Actin

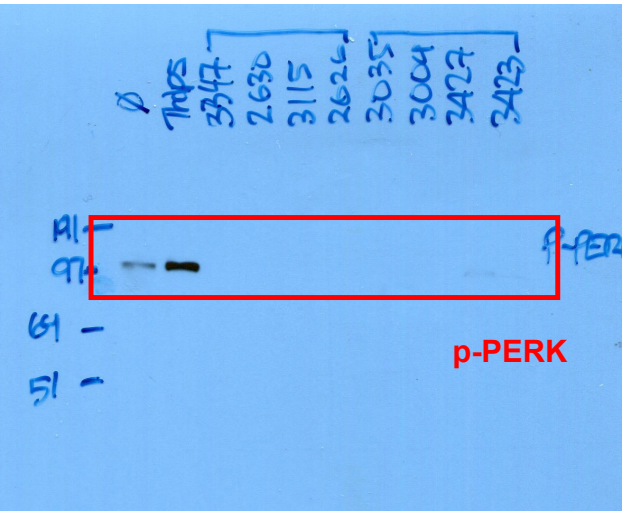
SFigure 1A

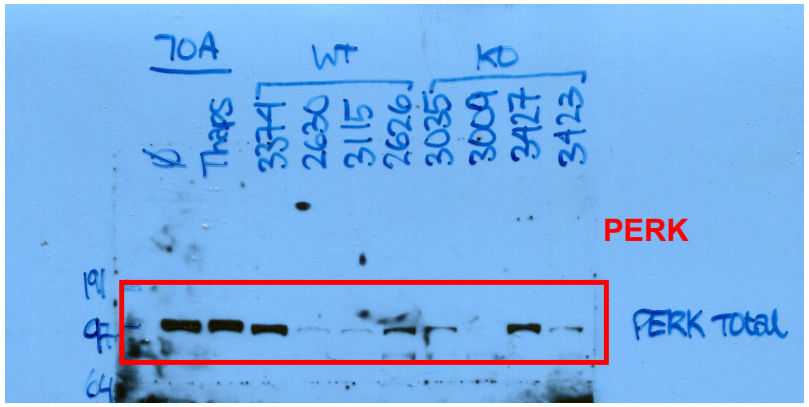


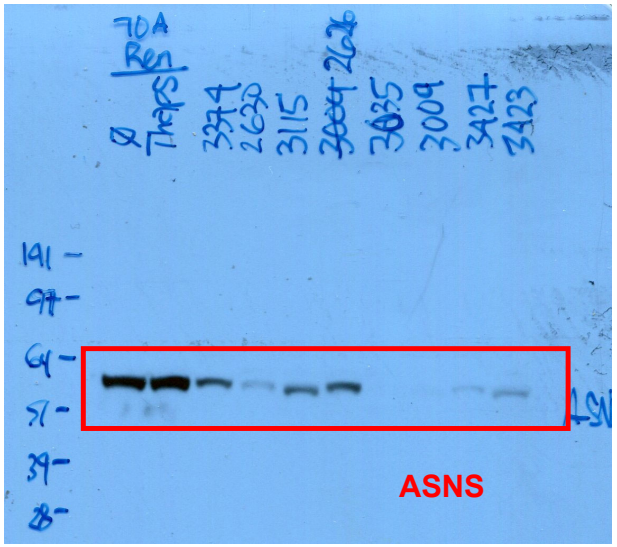


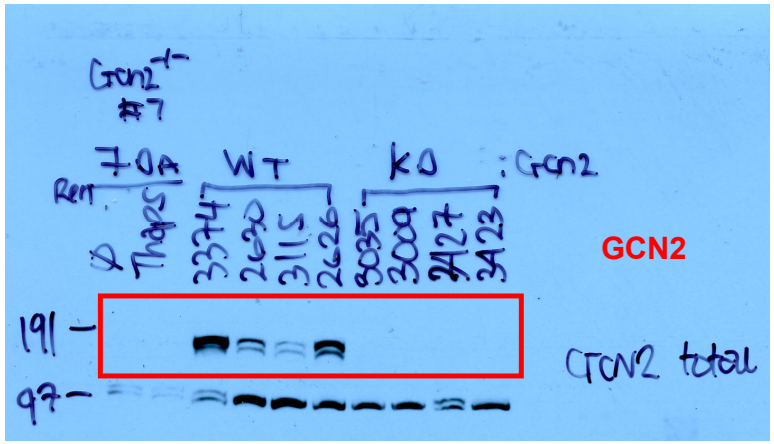


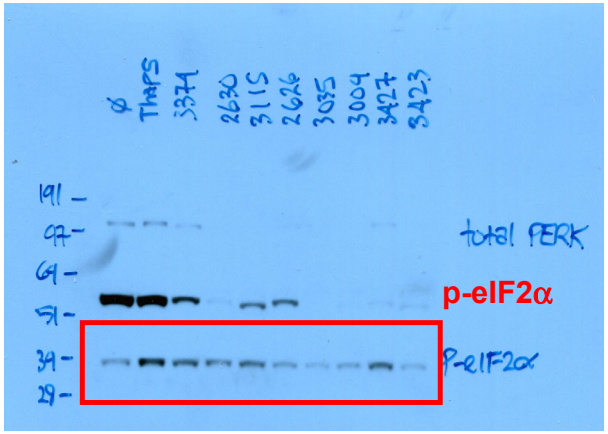
SFigure 1D

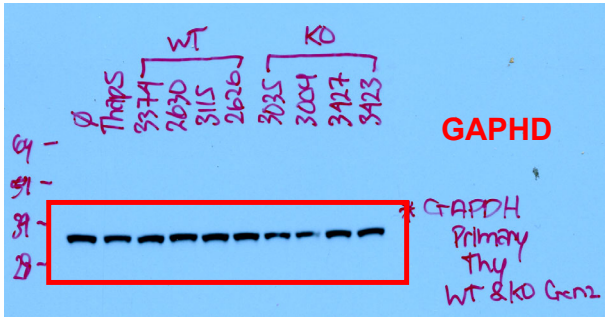

p-PERK

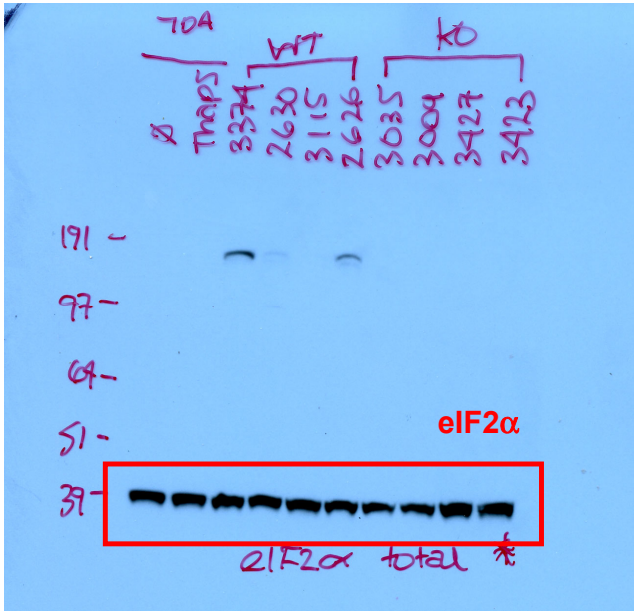

PERK
PERK Total


ASNS

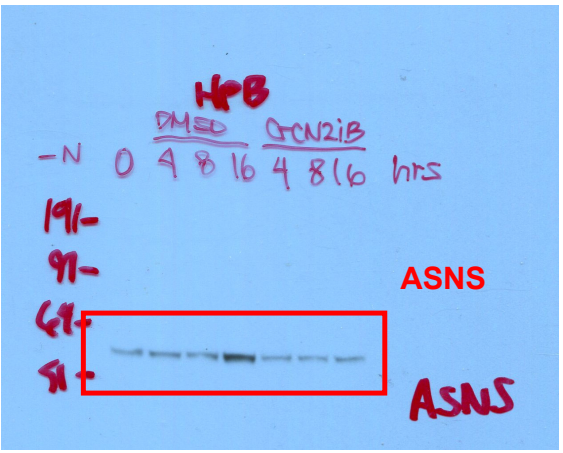

GCN2
GCN2 total

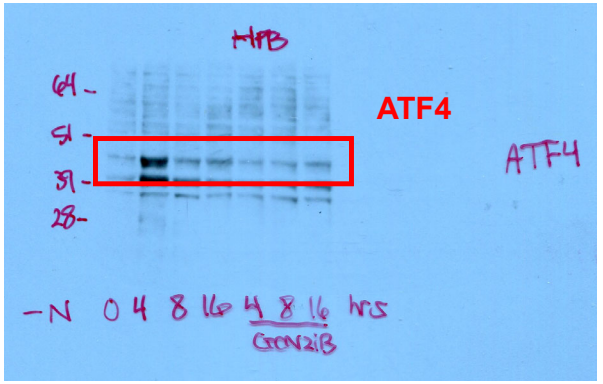

total PERK
p-eIF2α
p-eIF2α

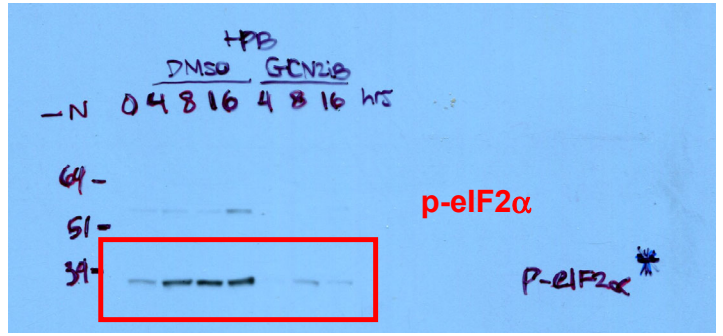

GAPHD
GAPDH Primary Thy WT &KO Gcn2

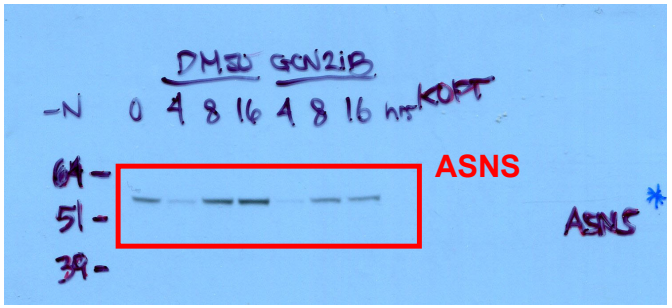

eIF2α
eIF2α total

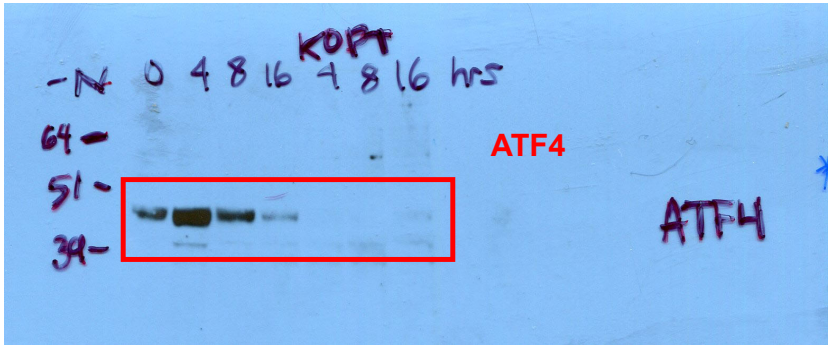
SFigure 2A

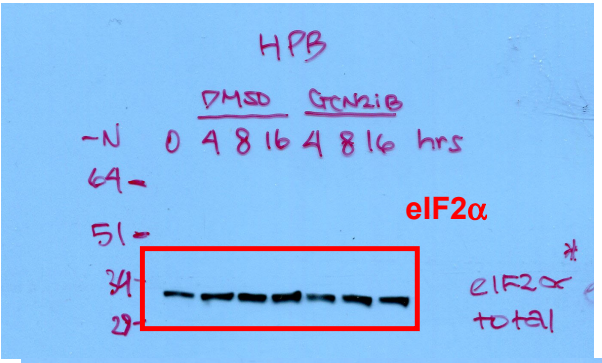

HPB
DMSO
GCN2iB
-N 0 4 8 16 4 8 16 hrs
191-
91-
64-
51-
ASNS
ASNS

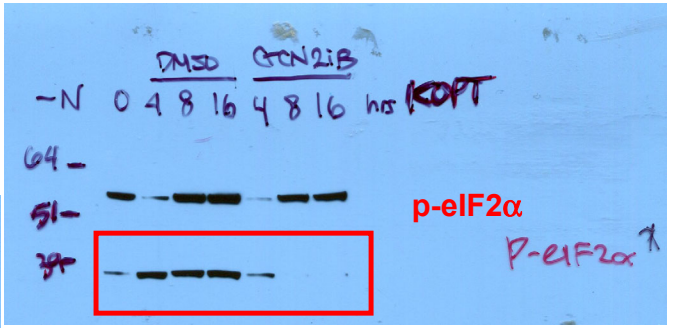

HPB
64-
51-
39-
28-
ATF4
ATF4
-N 0 4 8 16 4 8 16 hrs
GCN2iB

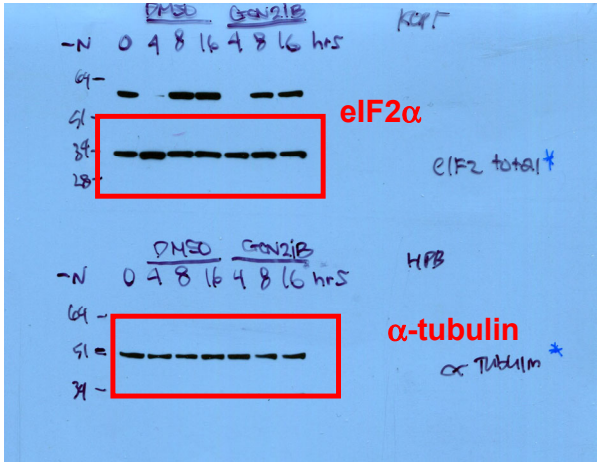

HPB
DMSO
GCN2iB
-N 0 4 8 16 4 8 16 hrs
64-
51-
39-
p-eIF2α
P-eIF2α

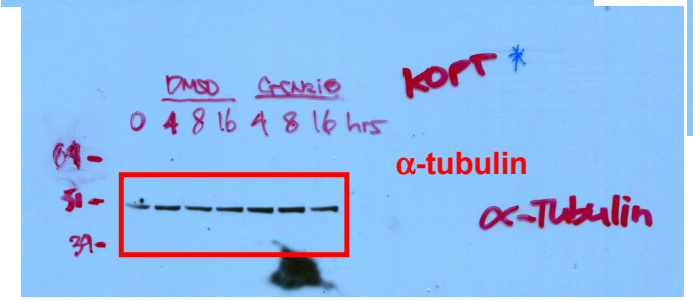

DMSO
GCN2iB
-N 0 4 8 16 4 8 16 hrs KOPT
64-
51-
39-
ASNS
ASNS


KOPT
-N 0 4 8 16 4 8 16 hrs
64-
51-
39-
ATF4
ATF4

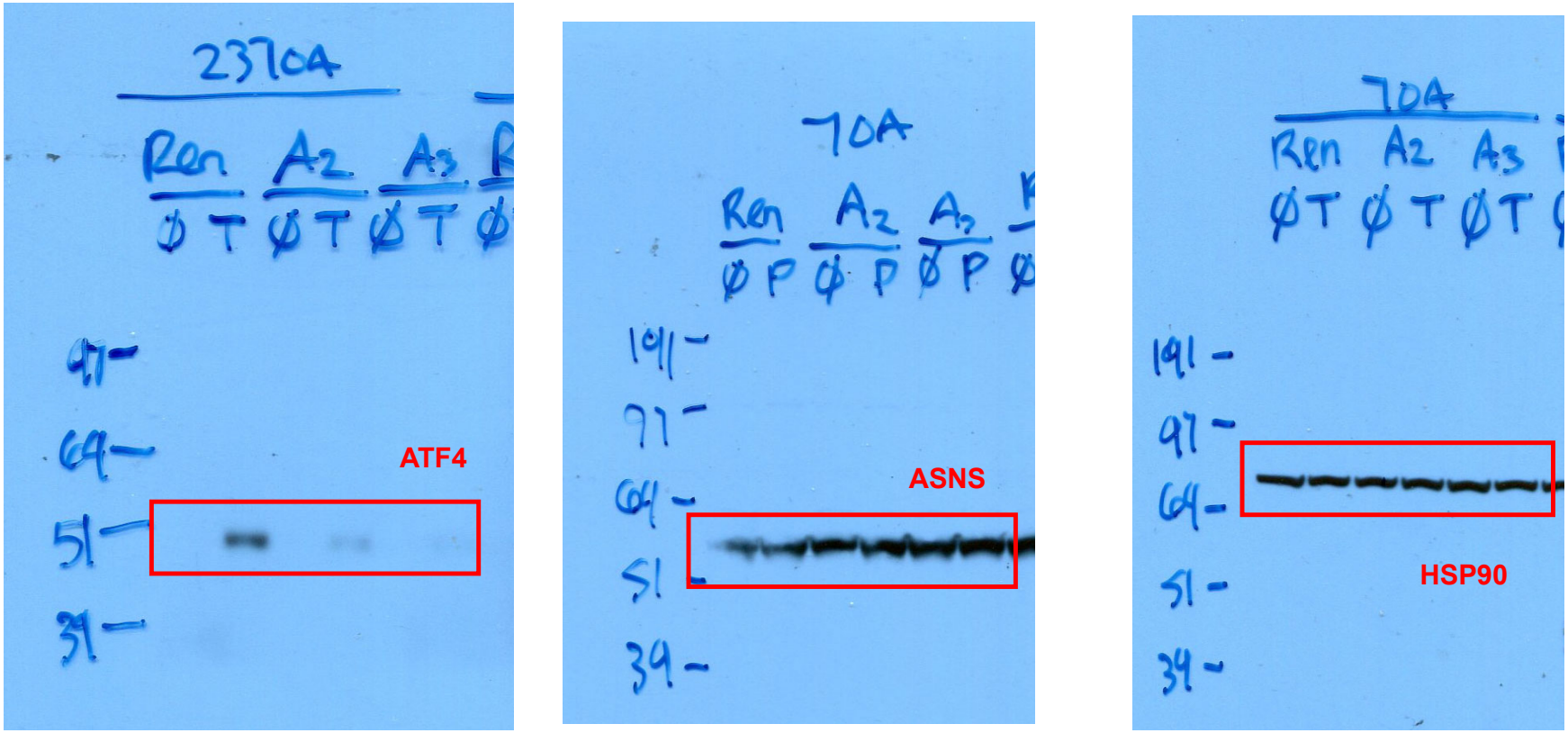

HPB
DMSO
GCN2iB
-N 0 4 8 16 4 8 16 hrs
64-
51-
39-
28-
eIF2α
eIF2α total


DMSO
GCN2iB
-N 0 4 8 16 4 8 16 hrs KOPT
64-
51-
39-
p-eIF2α
P-eIF2α

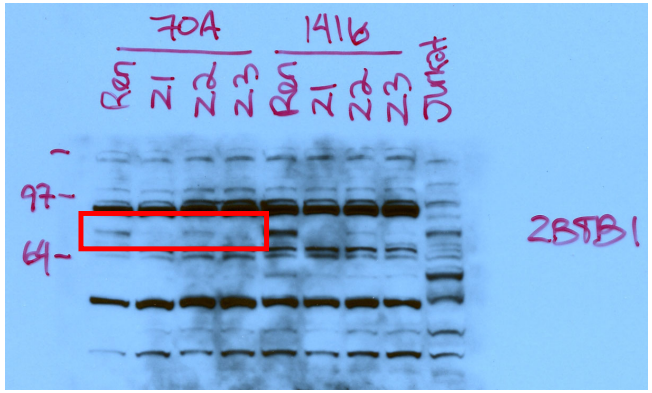

DMSO
GCN2iB
KOPT
-N 0 4 8 16 4 8 16 hrs
64-
51-
39-
28-
eIF2α
eIF2 total
DMSO
GCN2iB
HPB
-N 0 4 8 16 4 8 16 hrs
64-
51-
39-
α-tubulin
α-Tubulin


DMSO
GCN2iB
KOPT
0 4 8 16 4 8 16 hrs
64-
51-
39-
α-tubulin
α-Tubulin

SFigure 3A


23704
Ren A2 A3
Ø T Ø T Ø T
97
64
51
39
ATF4
704
Ren A2 A3
Ø P Ø P Ø P
191
97
64
51
39
ASNS
704
Ø T Ø T Ø T
191
97
64
51
39
HSP90

SFigure 3C



ZBTB1

