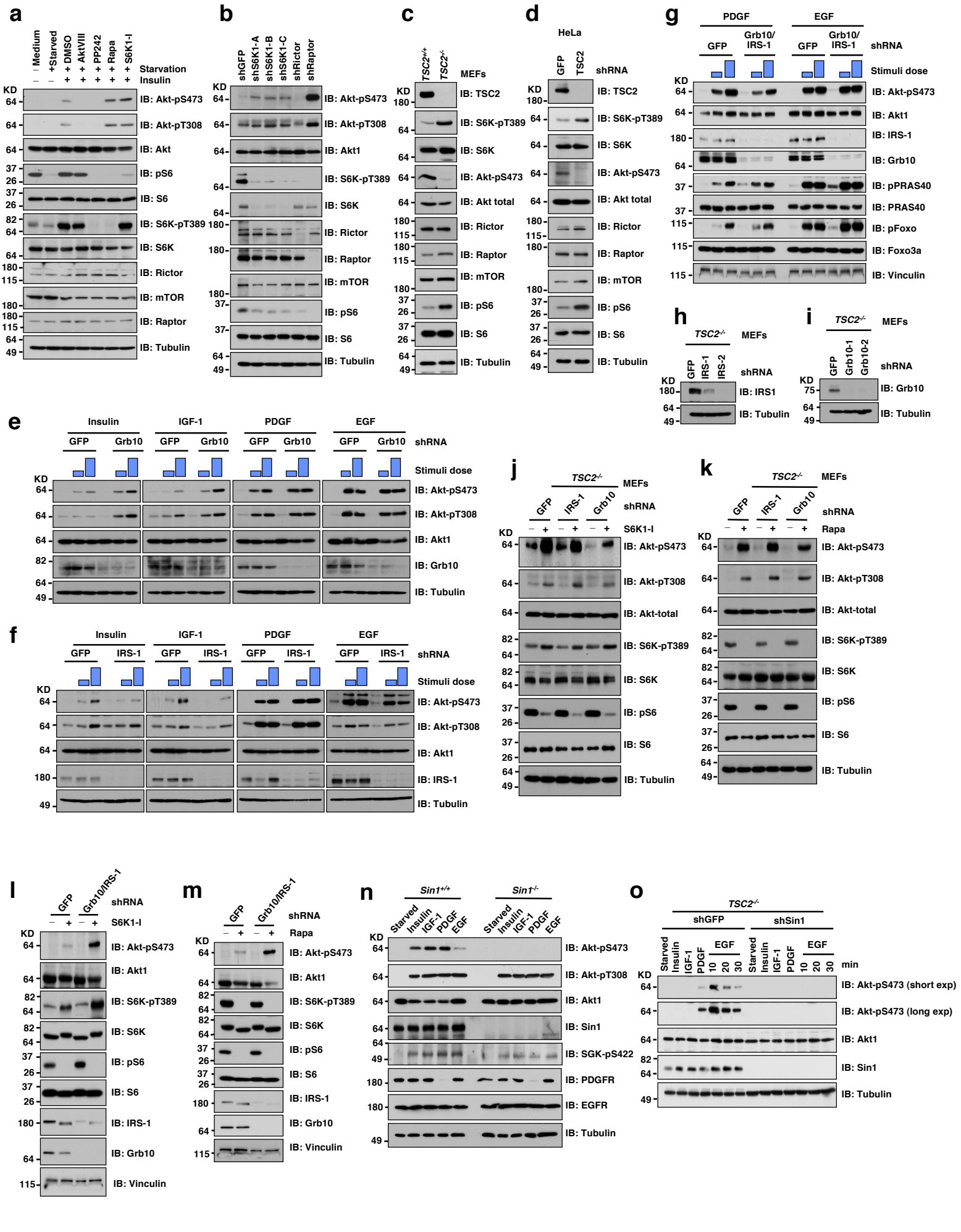
Figure S1


a
Medium
+Starved
+ DMSO
+ AktVIII
+ PP242
+ Rapa
+ S6K1-I
Starvation
Insulin
KD
IB: Akt-pS473
IB: Akt-pT308
IB: Akt
IB: pS6
IB: S6
IB: S6K-pT389
IB: S6K
IB: Rictor
IB: mTOR
IB: Raptor
IB: Tubulin
b
shGFP
shS6K1-A
shS6K1-B
shS6K1-C
shRictor
shRaptor
IB: Akt-pS473
IB: Akt-pT308
IB: Akt1
IB: S6K-pT389
IB: S6K
IB: Rictor
IB: Raptor
IB: mTOR
IB: pS6
IB: S6
IB: Tubulin
c
TSC2+/+
TSC2-/-
MEFs
IB: TSC2
IB: S6K-pT389
IB: S6K
IB: Akt-pS473
IB: Akt total
IB: Rictor
IB: Raptor
IB: mTOR
IB: pS6
IB: S6
IB: Tubulin
d
HeLa
GFP
TSC2
shRNA
IB: TSC2
IB: S6K-pT389
IB: S6K
IB: Akt-pS473
IB: Akt total
IB: Rictor
IB: Raptor
IB: mTOR
IB: pS6
IB: S6
IB: Tubulin
g
PDGF
EGF
GFP
Grb10/ IRS-1
shRNA
Stimuli dose
IB: Akt-pS473
IB: Akt1
IB: IRS-1
IB: Grb10
IB: pPRAS40
IB: PRAS40
IB: pFoxo
IB: Foxo3a
IB: Vinculin
h
TSC2-/- MEFs
GFP
IRS-1
IRS-2
shRNA
IB: IRS1
IB: Tubulin
i
TSC2-/- MEFs
GFP
Grb10-1
Grb10-2
shRNA
IB: Grb10
IB: Tubulin
e
Insulin
IGF-1
PDGF
EGF
GFP
Grb10
shRNA
Stimuli dose
IB: Akt-pS473
IB: Akt-pT308
IB: Akt1
IB: Grb10
IB: Tubulin
f
Insulin
IGF-1
PDGF
EGF
GFP
IRS-1
shRNA
Stimuli dose
IB: Akt-pS473
IB: Akt-pT308
IB: Akt1
IB: IRS-1
IB: Tubulin
j
TSC2-/- MEFs
GFP
IRS-1
Grb10
shRNA
S6K1-I
IB: Akt-pS473
IB: Akt-pT308
IB: Akt-total
IB: S6K-pT389
IB: S6K
IB: pS6
IB: S6
IB: Tubulin
k
TSC2-/- MEFs
GFP
IRS-1
Grb10
shRNA
Rapa
IB: Akt-pS473
IB: Akt-pT308
IB: Akt-total
IB: S6K-pT389
IB: S6K
IB: pS6
IB: S6
IB: Tubulin
l
GFP
Grb10/IRS-1
shRNA
S6K1-I
IB: Akt-pS473
IB: Akt1
IB: S6K-pT389
IB: S6K
IB: pS6
IB: S6
IB: IRS-1
IB: Grb10
IB: Vinculin
m
GFP
Grb10/IRS-1
shRNA
Rapa
IB: Akt-pS473
IB: Akt1
IB: S6K-pT389
IB: S6K
IB: pS6
IB: S6
IB: IRS-1
IB: Grb10
IB: Vinculin
n
Sin1+/+
Sin1-/-
Starved
Insulin
IGF-1
PDGF
EGF
IB: Akt-pS473
IB: Akt-pT308
IB: Akt1
IB: Sin1
IB: SGK-pS422
IB: PDGFR
IB: EGFR
IB: Tubulin
o
TSC2-/-
shGFP
shSin1
Starved
Insulin
IGF-1
PDGF
EGF
10
20
30
min
IB: Akt-pS473 (short exp)
IB: Akt-pS473 (long exp)
IB: Akt1
IB: Sin1
IB: Tubulin