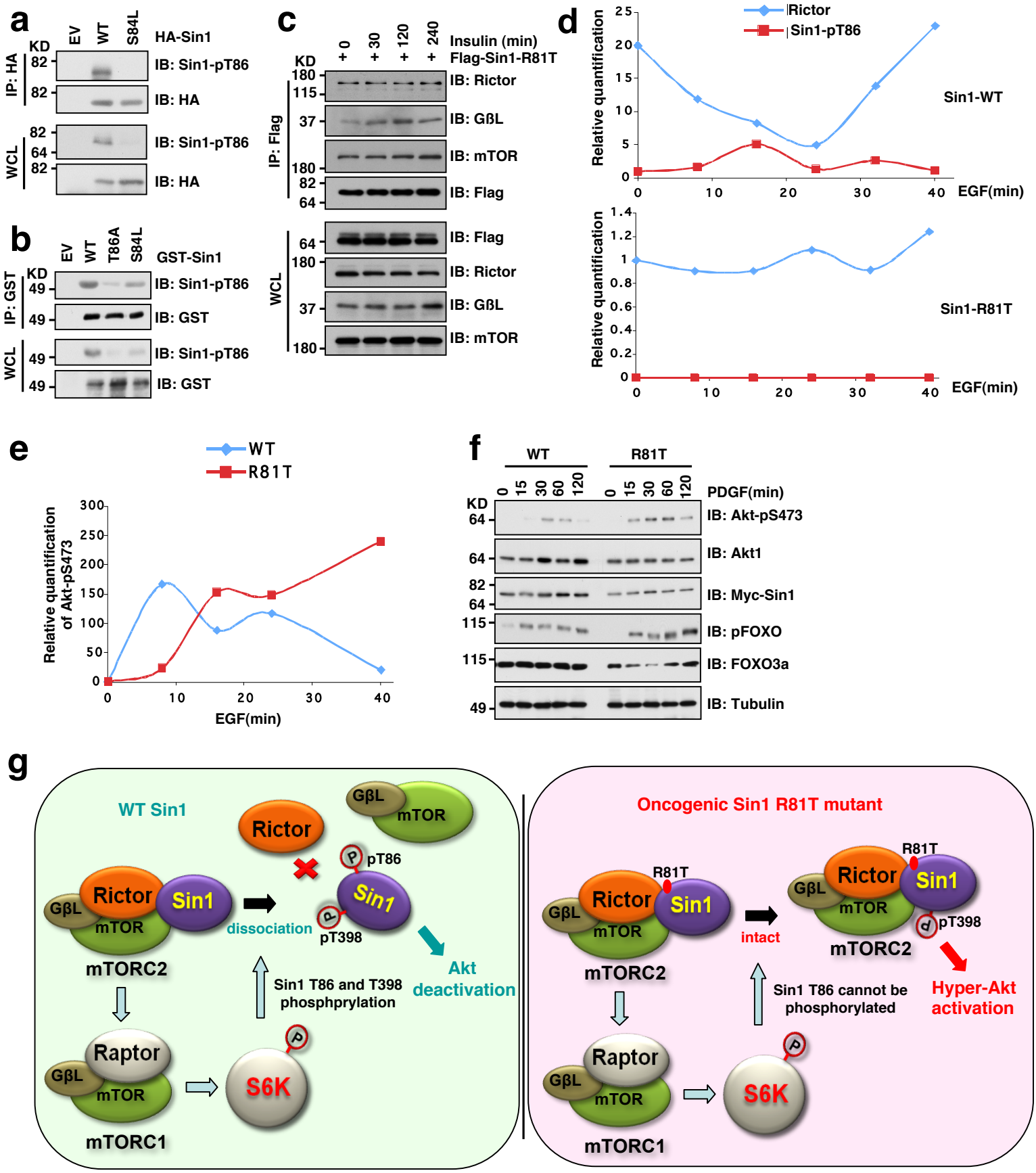
Figure S7


a
EV
WT
S84L
HA-Sin1
KD
IP: HA
82
IB: Sin1-pT86
IB: HA
WCL
64
IB: Sin1-pT86
IB: HA
b
EV
WT
T86A
S84L
GST-Sin1
IP: GST
49
IB: Sin1-pT86
IB: GST
WCL
IB: Sin1-pT86
IB: GST
c
+ 0
+ 30
+ 120
+ 240
Insulin (min)
Flag-Sin1-R81T
IP: Flag
180
115
37
IB: Rictor
IB: GßL
IB: mTOR
IB: Flag
WCL
IB: Flag
IB: Rictor
IB: GßL
IB: mTOR
d
Rictor
Sin1-pT86
Relative quantification
Sin1-WT
EGF(min)
Sin1-R81T
e
WT
R81T
Relative quantification of Akt-pS473
EGF(min)
f
WT
R81T
PDGF(min)
IB: Akt-pS473
IB: Akt1
IB: Myc-Sin1
IB: pFOXO
IB: FOXO3a
IB: Tubulin
g
WT Sin1
Rictor
GßL
mTOR
pT86
Sin1
pT398
dissociation
mTORC2
Sin1 T86 and T398 phosphprylation
Akt deactivation
Raptor
S6K
mTORC1
Oncogenic Sin1 R81T mutant
R81T
intact
pT398
Sin1 T86 cannot be phosphorylated
Hyper-Akt activation