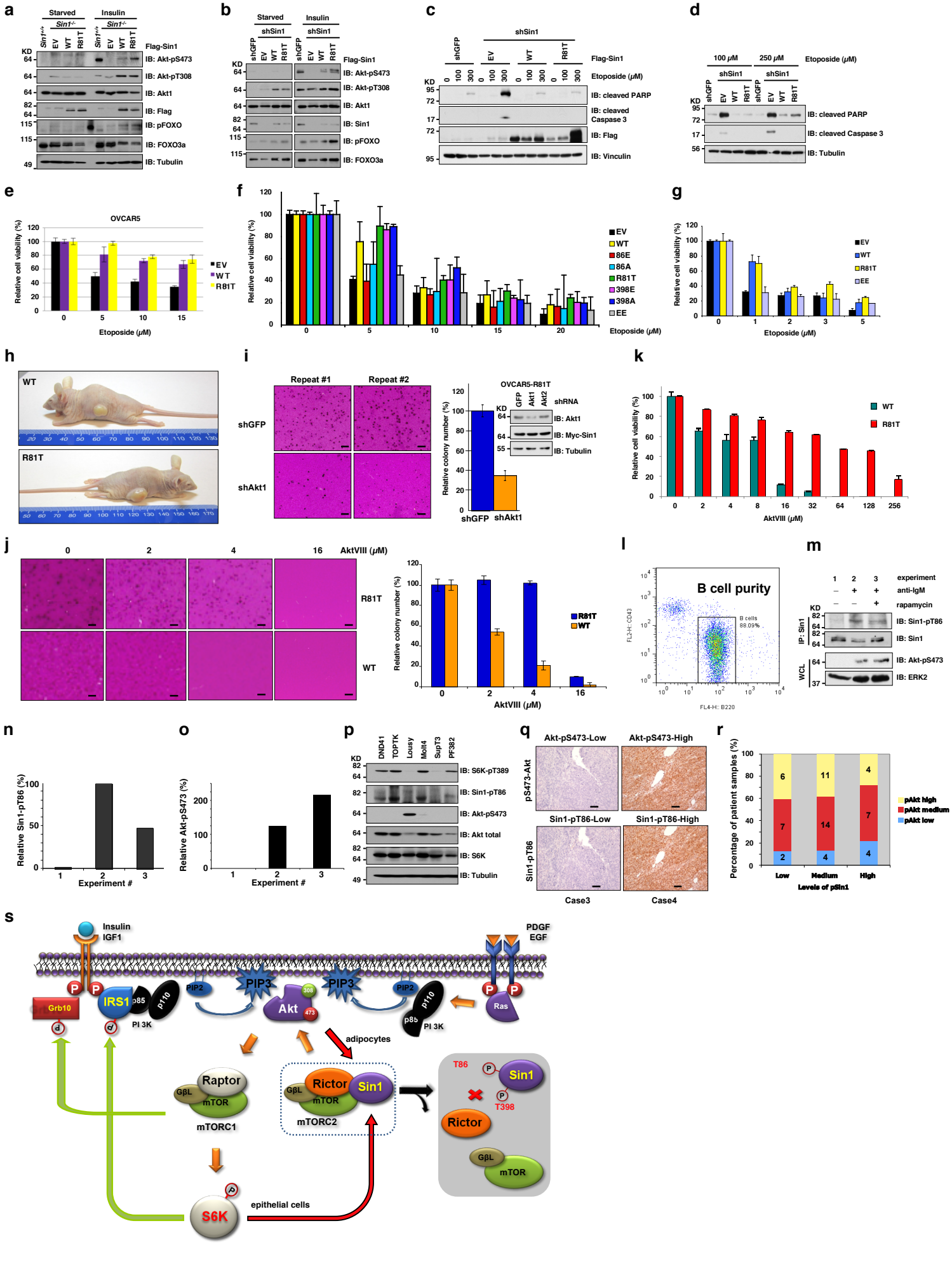
Figure S8


a
Starved
Insulin
Sin1-/-
Sin1+/+
EV
WT
R81T
Flag-Sin1
IB: Akt-pS473
IB: Akt-pT308
IB: Akt1
IB: Flag
IB: pFOXO
IB: FOXO3a
IB: Tubulin
b
shGFP
shSin1
IB: Sin1
c
Etoposide (μM)
IB: cleaved PARP
IB: cleaved Caspase 3
IB: Vinculin
d
100 μM
250 μM
e
OVCAR5
Relative cell viability (%)
Etoposide (μM)
f
86E
86A
398E
398A
EE
g
h
WT
R81T
i
Repeat #1
Repeat #2
shGFP
shAkt1
Relative colony number (%)
OVCAR5-R81T
shRNA
IB: Myc-Sin1
k
AktVIII (μM)
j
0
2
4
16
AktVIII (μM)
l
B cell purity
B cells
88.09%
FL2-H: CD43
FL4-H: B220
m
experiment
anti-IgM
rapamycin
IP: Sin1
WCL
IB: Sin1-pT86
IB: Sin1
IB: Akt-pS473
IB: ERK2
n
Relative Sin1-pT86 (%)
Experiment #
o
Relative Akt-pS473 (%)
p
DND41
TOPTK
Lousy
Molt4
SupT3
PF382
IB: S6K-pT389
IB: Sin1-pT86
IB: Akt-pS473
IB: Akt total
IB: S6K
IB: Tubulin
q
Akt-pS473-Low
Akt-pS473-High
Sin1-pT86-Low
Sin1-pT86-High
pS473-Akt
Sin1-pT86
Case3
Case4
r
Percentage of patient samples (%)
pAkt high
pAkt medium
pAkt low
Low
Medium
High
Levels of pSin1
s
Insulin
IGF1
PDGF
EGF
Grb10
IRS1
PI 3K
PIP2
PIP3
Akt
Ras
adipocytes
Raptor
mTOR
GβL
mTORC1
Rictor
Sin1
mTORC2
T86
T398
S6K
epithelial cells