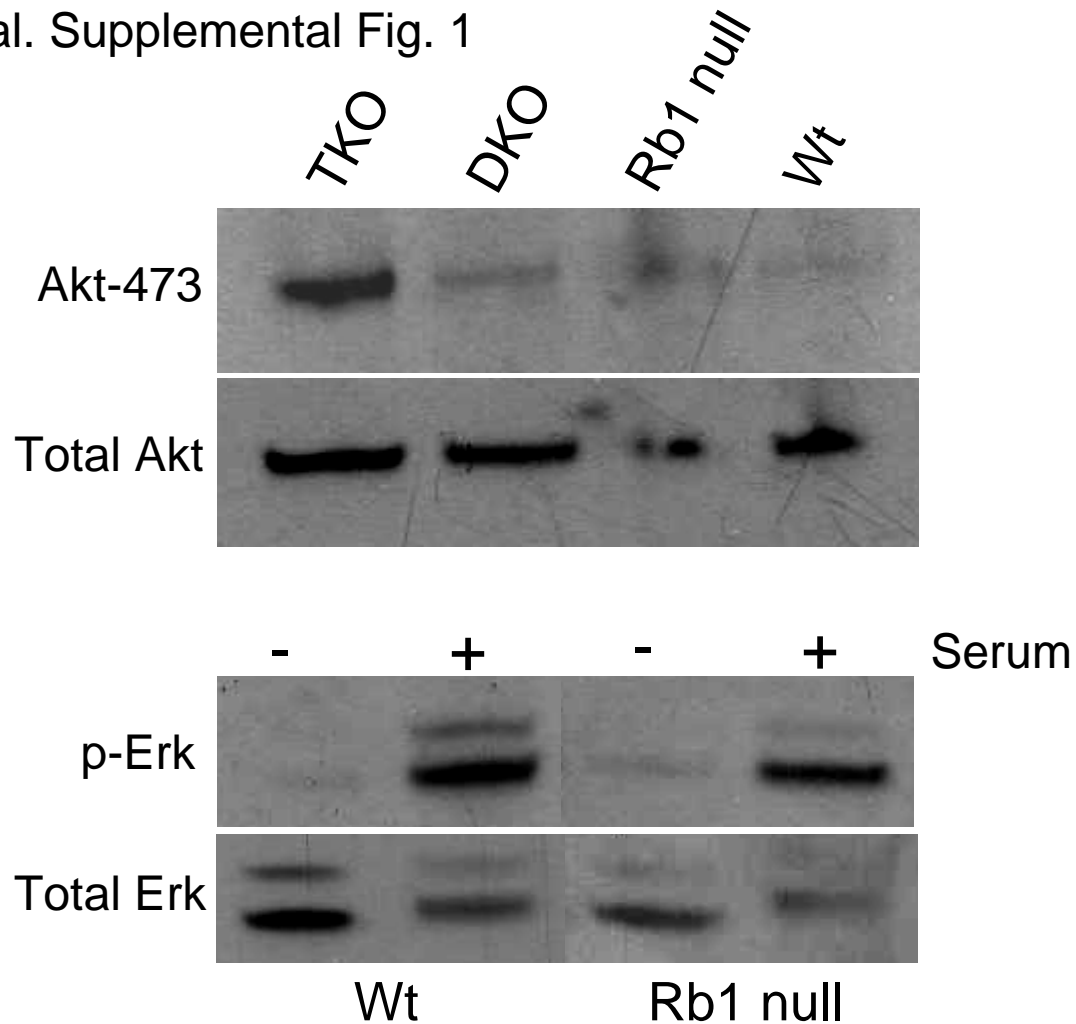
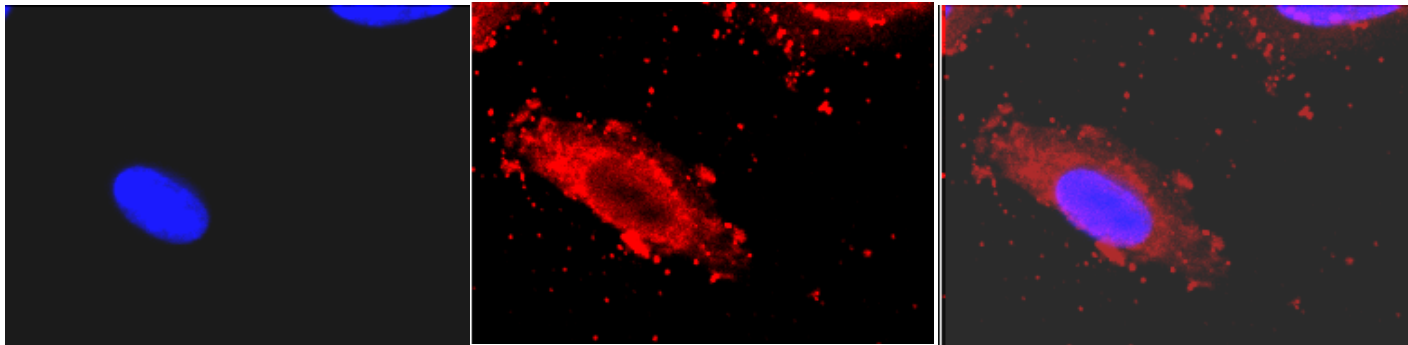


Liu et al. Supplemental Fig. 1



Supplemental Fig. 1. The top panel shows an Akt-473 Western blot of TKO, DKO (RbL1^{-/-}, RbL2^{-/-}) and Rb1^{-/-} MEFs. The lower panel shows a Western blot for phospho-Erk. Cells were serum-starved for 24 hrs. (-) followed by a one hr serum stimulation (10% FBS) (+). Wt, is wild-type MEFs.

Liu et al Supplemental Fig. 2



Supplemental Fig. 2. Immunostaining for Akt-473 in TKO MEFs at low density. Dapi nuclear staining is shown on the left, Akt-473 in the center and a merged image is shown on the right.

El-Naggar et al Supplemental Table 1

Name	IgG	Specificity	Maker
Anti-Akt 1/2/3 (H-136)	Rabbit polyclonal	m, rat, h	Santa Cruz Biotechnology
Anti-pAkt 1/2/3 (Ser473)	Rabbit polyclonal	m, rat, h	Santa Cruz Biotechnology
Anti-pAkt 1/2/3 (Thr308)	Rabbit polyclonal	m, rat, h	Santa Cruz Biotechnology
Anti-pAkt ser473	Rabbit monoclonal	m, rat, h	cell signaling
Anti-mTOR (FRAP, H-266)	Rabbit monoclonal	m, rat, h	Santa Cruz Biotechnology
Anti-Raf-1 E-10	mouse monoclonal	m, rat, h	Santa Cruz Biotechnology
Anti-pRaf (ser 259)	Rabbit monoclonal	m, rat, h	Santa Cruz Biotechnology
Anti-Foxo3a (FKHRL1,D-12)	mouse monoclonal	m, rat, h	Santa Cruz Biotechnology
Anti-pFoxo3a (pFKHRL, thr 32)	Rabbit monoclonal	m, rat, h	Santa Cruz Biotechnology
Anti-pHLpp1	Rabbit polyclonal	m, rat, h	Belly Laboratories
Anti-pERK1/2	Rabbit polyclonal	m, rat, h	Cell Signaling
Anti-MEK	Rabbit polyclonal	m, rat, h	Cell Signaling
Anti-pMEK	Rabbit polyclonal	m, rat, h	Cell Signaling
Anti-beta-actin	mouse monoclonal	m, rat, h	sigma

Primer name	Sequence (5' - 3')	Tm °C	Amplicon (bp)
Mm ARF LP	TGAGGCTAGAGAGGATCTTGAGA	56.3	91
Mm ARF RP	GCAGAAGAGCTGCTACGTGAA	57.3	
Mm ACTB_2 LP	GGCTGTATTCCCCTCCATCG	57.6	154
Mm ACTB_2 RP	CCAGTTGGTAACAATGCCATGT	55.9	
Mm mTOR LP	ACTGAGGAGGGAGAACAGCA	57.9	153
Mm mTOR RP	TGGCTCCATCTGCTAGTGTG	56.8	
Mm Sin1 LP	GTACTIONTTGGCCCTGGTTGAA	55.3	203
Mm Sin1 RP	CTTCTCCAGGCGGTACTIONTACTGAG	57	
Mm Raptor LP	CCGAGGAGCATGACCTAGAG	56.6	233
Mm Raptor RP	CTCCCAGTCCCAAAAACAGA	54.7	
Mm PHLPP1 LR	AGAAACTTGGTGGTGCTGCT	57.3	229
Mm PHLPP1 RP	ACTCCATTGACCTTGCCATC	55.1	
Mm PHLPP2 LR	ACGTTCTCTGTGCGAAATGG	54.9	164
Mm PHLPP2 RP	AGGAAGGTGTAGCCCAGGAT	57.8	
Mm c-Myc LP	TCCTGTACCTCGTCCGATTC	55.9	195
Mm c-Myc RP	GGTTTGCCCTTTCTCCACAG	55.8	
Mm FOXO3a LP	TTCAAGGATAAGGGCGACAG	54.5	211
Mm FOXO3a RP	GGCTCTTGGTGTACTTGTGTC	56.5	
Mm Ccnd1 LP	GCGTACCCTGACACCAATCTC	57.7	183
Mm Ccnd1 RP	CTCCTCTTCGCACTTCTGCTC	57.6	
Mm mLST8 LP	AGTCTTCCATCACGTCTGCTC	56.6	168
Mm mLST8 RP	ATTGCAGGGCATAGCGTGT	57.5	
Mm Ccne1 LP	GTGGCTCCGACCTTTCAGTC	62.5	101
Mm Ccne1 RP	CACAGTCTTGTCAATCTTGGCA	60.8	
Mm Ccna1 LP	TGATGCTTGTCAAATGCTCAGC	61.7	101
Mm Ccna1 RP	AGGTCCTCCTGTACTGCTCAT	61.8	
Mm cdc2 LP	AGAAGGTACTIONTACGGTGTGGT	60.2	128
Mm cdc2 RP	GAGAGATTTCCCGAATTGCAGT	60.4	
Mm Rictor LP	TCTGTGCGTTTACAGGTTGTTG	60.02	193
Mm Rictor RP	GCTTCCTTTGCTTTGTCCAG	59.99	