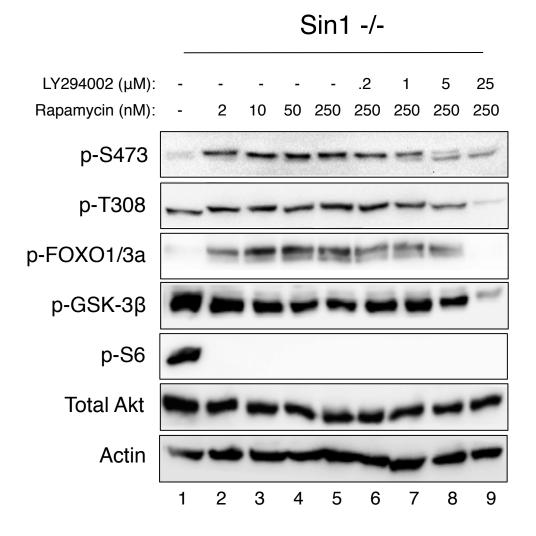
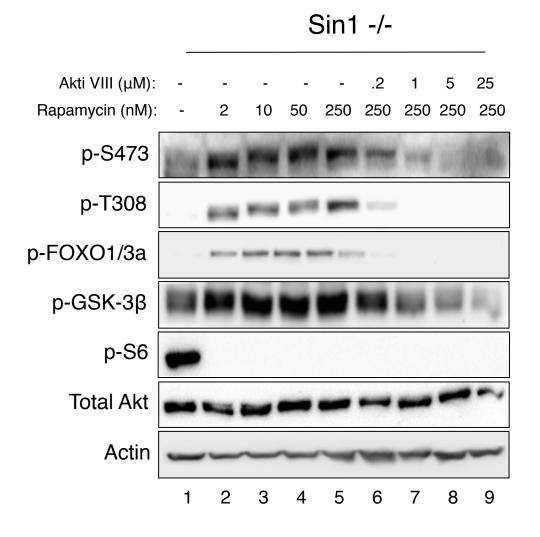
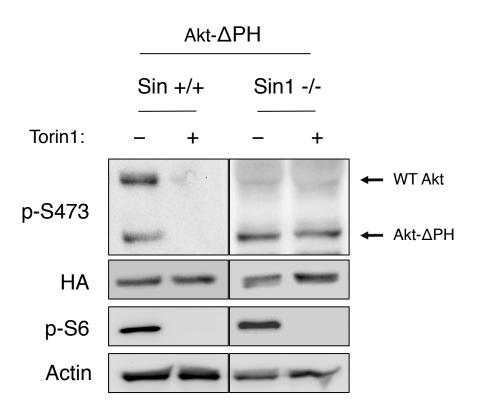
	Sin1 -/-					
	Vector		WT		T389E	
Rapamycin	_	+	_	+	-	+
IRS-2		-	-	-	1	
p-473				-	Service Service	1000
HA	×)		_	_
p-S6	(0)		-		-	
Actin	1	-	-	-	-	-
	1	2	3	4	5	6





Supplemental Figure 3



<u>Supplemental Figure 1.</u> Inactivation of S6K is necessary to restore S473 phosphorylation in Sin1 -/- MEFs. Sin1 -/- MEFs were transfected with vector control, WT-p70S6K, or a rapamycin-insensitive construct, p70S6K (T389E) prior to treatment with rapamycin (100 nM) for 24 hours. Immunoblotting was used to monitor the relative level of total and phosphorylated proteins.

<u>Supplemental Figure 2.</u> Rescue of Akt (S473) phosphorylation in cells lacking mTORC2 is dependent upon PI3K and the conformation of Akt. (a) Sin1 -/- MEFs were treated with increasing concentrations of rapamycin alone or in combination with increasing doses of LY294002 for 24 hours. (b) Sin1 -/- MEFs were treated with increasing concentrations of rapamycin alone or in combination with increasing doses of Akti VIII for 24 hours. The phosphorylation state of Akt, GSK-3, FOXO1/3a, and S6 were monitored by immunoblotting.

<u>Supplemental Figure 3.</u> Regulation of Akt (S473) phosphorylation is specifically mediated by mTORC2. Sin1 +/+ MEFs or Sin1 -/- MEFs were transfected with Akt- Δ PH for approximately 30 hours prior to treatment with Torin1 (50 nm) for 1-hour and the phosphorylation state of Akt (S473) and S6 were monitored by immunoblotting.