Revision 1			
Phospho-Sin1 (Thr86) (D4U9L) Rabbit mAb	Ce T F		
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Applications: W, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 78, 74	Source/Isotype: Rabbit IgG	UniProt ID: #Q9BPZ7	Entrez-Gene Id 79109		
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sensitivity		Phospho-Sin1 (Thr86) (D4U9L) Rabbit mAb recognizes endogenous levels of Sin1 protein only when phosphorylated at Thr86.						
Species predict based on 100% homology		Rat						
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding phosphorylated Thr86 of human Sin1 protein.						
Background		The mammalian TOR (r with growth factor-der different complexes. Th raptor. mTORC2, insens complex phosphorylat activation. Furthermore (3). mTORC2 has also b effector of mTOR (4). Ir	nTOR) pathway re ived signals (1). m ne mTOR complex sitive to rapamycir es Ser473 of Akt/P e, rictor siRNA kno een shown to pho n addition, phosph	rocess whereby cells acc gulates growth by coord FOR is a large protein kin 1 (mTORC1), a target of , includes mTOR, GβL, S (B <i>in vitro</i> (2). This phos ckdown inhibits Ser473 sphorylate the rapamyc orylation of Sin1 at Thr8 n stimulation by growth	linating energy and nase that is a comp rapamycin, contain in1, and rictor (1). T phorylation is esser phosphorylation in in-resistant mutant 6 by Akt/PKB was s	nutrient signals onent of two s mTOR, GβL, and he mTORC2 htial for full Akt/PKI 3T3-L1 adipocytes s of S6K1, another		
Background Re	ferences	1. Sarbassov, D.D. et al. (2004) <i>Curr Biol</i> 14, 1296-302. 2. Sarbassov, D.D. et al. (2005) <i>Science</i> 307, 1098-101. 3. Hresko, R.C. and Mueckler, M. (2005) <i>J Biol Chem</i> 280, 40406-16. 4. Ali, S.M. and Sabatini, D.M. (2005) <i>J Biol Chem</i> 280, 19445-8. 5. Humphrey, S.J. et al. (2013) <i>Cell Metab</i> 17, 1009-20.						
Species Reactiv	vity	Species reactivity is det	ermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	uffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Ke	≥y	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivit	y Key	H: Human M: Mouse						
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