## Rictor (D16H9) Rabbit mAb



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## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 200	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #Q6R327	Entrez-Gene Id: 253260
Product Usage Information		<b>Application</b> Western Blotting		<b>Dilution</b> 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Rictor (D16H9) Rabbit mAb detects endogenous levels of total rictor protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the sequence around Leu1121 of human rictor protein.				
Background		Cell growth is a fundamental biological process whereby cells accumulate mass and increase in size. The mammalian TOR (mTOR) pathway regulates growth by coordinating energy and nutrient signals with growth factor-derived signals (1). mTOR is a large protein kinase with two different complexes. One complex contains mTOR, GβL and raptor, which is a target of rapamycin. The other complex, insensitive to rapamycin, includes mTOR, GβL, Sin1, and rictor (1). The mTOR-rictor complex phosphorylates Ser473 of Akt/PKB <i>in vitro</i> (2). This phosphorylation is essential for full Akt/PKB activation. Furthermore, an siRNA knockdown of rictor inhibits Ser473 phosphorylation in 3T3-L1 adipocytes (3). This complex has also been shown to phosphorylate the rapamycin-resistant mutants of S6K1, another effector of mTOR (4).				
Background References		1. Sarbassov, D.D. et al. (2004) <i>Curr. Biol.</i> 14, 1296-1302. 2. Sarbassov, D.D. et al. (2005) <i>Science</i> 307, 1098-1101. 3. Hresko, R.C. and Mueckler, M. (2005) <i>J. Biol. Chem.</i> 280, 40406-40416. 4. Ali, S.M. and Sabatini, D.M. (2005) <i>J. Biol. Chem.</i> 280, 19445-19448.				
Species Reacti	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting				
Cross-Reactivity Key		H: Human M: Mouse				
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