Phospho-Raptor (Ser792) Antibody



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Applications: R	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 150	Source/Isotype: Rabbit	UniProt ID: #Q8N122	Entrez-Gene Id 57521
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-Raptor (Ser792) Antibody detects endogenous levels of raptor protein only when phosphorylated at Ser792. The antibody may also detect non-specific signals of various molecular weights.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to the sequence surrounding Ser792 of human raptor. Antibodies are purified by peptide affinity chromatography.				
Background		mediates mTOR signal BP1 and p70 S6 kinas phosphorylation of the mTOR-raptor intesignaling (5). This mT dependent on a protemTOR and rictor (rapto downstream targe as the previously elus phosphorylation of A Recently raptor has be AMPK phosphorylate the raptor-containing	aling to downstream se, through their TO hese substrates (3,4 eraction, suggesting OR-raptor interactice in called GβL (6). Gamycin-insensitive obtained The Complex 1 (7 to 10 to	OR (Raptor) was identified targets (1,2). Raptor bing signaling (TOS) motifs and the FKBP12 and the FKBP12 and the FKBP12 and the FKBP13 and	nds to mTOR substicand is required for rapamycin comple bycin's specific inhibit nutrients and/or rapamycin-insensitive and may mediate rict or-mTOR complex hon of Akt/PKB on Sethe full activation of MP-activated protein sessential cycle arrest wher	rates, including 4E-mTOR-mediated x to mTOR inhibits bition of mTOR pamycin is complex between or-mTOR signaling as been identified er473, facilitating of Akt/PKB (8).
Background Refere	ences	1. Hara, K. et al. (2002) <i>Cell</i> 110, 177-89. 2. Kim, D. et al. (2002) <i>Cell</i> 110, 163-75. 3. Beugnet, A. et al. (2003) <i>J. Biol. Chem.</i> 278, 40717-22. 4. Nojima, H. et al. (2003) <i>J. Biol. Chem.</i> 278, 15461-64. 5. Oshiro, N. et al. (2004) <i>Genes Cells</i> 9, 359-66. 6. Kim, D. H. et al. (2003) <i>Mol. Cell</i> 11, 895-904. 7. Sarbassov, D. et al. (2004) <i>Curr. Biol.</i> 14, 1296-302. 8. Sarbassov, D.D. et al. (2005) <i>Science</i> 307, 1098-101. 9. Gwinn, D.M. et al. (2008) <i>Mol Cell</i> 30, 214-26.				
Species Reactivity		Species reactivity is d	letermined by testin	g in at least one approve	ed application (e.g.	western hlot)

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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 R: Rat

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