

RSK1 Antibody



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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 90	Source/Isotype: Rabbit	UniProt ID: #Q15418	Entrez-Gene Id: 6195
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		RSK1 Antibody detects endogenous levels of RSK1. It does not cross-react with the RSK2 or RSK3 isoforms.				
Species predicted to react based on 100% sequence homology		Dog				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu718 of human RSK1. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		characterized by two i for extracellular signa kinase domain, includ RSK1-3 are activated v	nonidentical, functi ıl-regulated kinases ling Ser380, Thr359 via coordinated pho H kinase (PI3K) in r) are a family of widely e onal kinase domains (1) (ERKs) (2). Several sites , Ser363, and Thr573, are sphorylation by MAPKs, esponse to many growth	and a carboxy-term both within and out e important for kind autophosphorylation	inal docking site side of the RSK ase activation (3). on, and
		PI3K-induced activation of RSK1 is mediated by the Ser/Thr kinase mTOR (mammalian target of rapamycin) (4,5). This activation of RSK1 selectively increases the translation of mRNA transcripts containing a tract of pyrimidine (TOP) motif. An association between RSK1 and specific PKA subunits depends upon RSK1 activation state and determines both intracellular localization and specific activity of the kinase (6). Evidence from animal models suggests that RSK1 is a key regulator of glucose homeostasis and cell size (7).				
Background Ref	Ferences	 Fisher, T.L. and Blenis, J. (1996) Mol Cell Biol 16, 1212-9. Smith, J.A. et al. (1999) J Biol Chem 274, 2893-8. Dalby, K.N. et al. (1998) J Biol Chem 273, 1496-505. Hay, N. and Sonenberg, N. (2004) Genes Dev 18, 1926-45. Um, S.H. et al. (2006) Cell Metab 3, 393-402. Chaturvedi, D. et al. (2006) Mol Cell Biol 26, 4586-600. Ruvinsky, I. et al. (2005) Genes Dev 19, 2199-211. 				
Species Reactivi	ity	Species reactivity is de	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 R: Rat Mk: Monkey

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