RSK2 (D21B2) XP[®] Rabbit mAb



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Applications: W, W-S, IHC-P, IF-IC, FC-FP	Reactivity: H M R Mk B Pg	Sensitivity: Endogenous	MW (kDa): 90	Source/Isotype: Rabbit IgG	UniProt ID: #P51812	Entrez-Gene Id: 6197	
Product Usage Information		Application Western Blotting Simple Western™ Immunohistochemist Immunofluorescence Flow Cytometry (Fixed	(Immunocytochem	istry)	1:80 1:20		
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		For a carrier free (BSA and azide free) version of this product see product #99402. RSK2 (D21B2) XP [®] Rabbit mAb recognizes endogenous levels of total RSK2 protein. This antibody does not cross-react with other RSK isoforms.					
Species predict based on 100% homology		Dog, Horse, Rabbit					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro686 of human RSK2 protein.					
Background		The 90 kDa ribosomal S6 kinases (RSK1-4) are a family of widely expressed Ser/Thr kinases characterized by two nonidentical, functional kinase domains (1) and a carboxy-terminal docking site for extracellular signal-regulated kinases (ERKs) (2). Several sites both within and outside of the RSK kinase domain, including Ser380, Thr359, Ser363, and Thr573, are important for kinase activation (3). RSK1-3 are activated via coordinated phosphorylation by MAPKs, autophosphorylation, and phosphoinositide-3-OH kinase (PI3K) in response to many growth factors, polypeptide hormones, and neurotransmitters (3).					
		effector kinase in seve phosphorylation of hi chromatin structure a cognitive function and and skeletal muscle c	eral pathways. EGF s stone H3 <i>in vivo</i> by and cell cycle (6). RSI d learning. During c ells (7,8). Mutations -linked disorder cha	ds to activation of RSK2, stimulation leads to pho RSK2 (4,5). RSK2 phosph 〈2 is prominently expres levelopment, RSK2 regul in the corresponding ge racterized by mental ret	sphorylation of CRI orylation of p53 m sed in the brain an ates the differentia ene are associated	EB at Ser133 and ay help regulate d is essential for tion of osteoblasts with Coffin-Lowry	
Background Re	eferences	 Fisher, T.L. and Blenis, J. (1996) <i>Mol Cell Biol</i> 16, 1212-9. Smith, J.A. et al. (1999) <i>J Biol Chem</i> 274, 2893-8. Dalby, K.N. et al. (1998) <i>J Biol Chem</i> 273, 1496-505. De Cesare, D. et al. (1998) <i>Proc Natl Acad Sci U S A</i> 95, 12202-7. Sassone-Corsi, P. et al. (1999) <i>Science</i> 285, 886-91. Cho, Y.Y. et al. (2005) <i>Cancer Res</i> 65, 3596-603. Yang, X. et al. (2004) <i>Cell</i> 117, 387-98. Cho, Y.Y. et al. (2007) <i>J Biol Chem</i> 282, 8380-92. Delaunoy, J.P. et al. (2006) <i>Clin Genet</i> 70, 161-6. 					

Species reactivity is determined by testing in at least one approved 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 W-S: Simple Western™ IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey B: Bovine Pg: Pig				
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