Phospho-RSK2 (Tyr529) Antibody



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Applications: W	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 90	Source/Isotype: Rabbit	UniProt ID: #P51812	Entrez-Gene Id: 6197
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-RSK2 (Tyr529) Antibody detects endogenous RSK2 protein only when phosphorylated at Tyr529. This antibody cross-reacts with some tyrosine phosphorylated proteins including EGFR.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr529 of human RSK2. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		characterized by two for extracellular signa kinase domain, includ RSK1-3 are activated v	nonidentical, functi al-regulated kinases ding Ser380, Thr359 via coordinated pho oH kinase (PI3K) in r) are a family of widely of onal kinase domains (1) (ERKs) (2). Several sites , Ser363, and Thr573, ar sphorylation by MAPKs, esponse to many growth	and a carboxy-term both within and out e important for kind autophosphorylation	ninal docking site tside of the RSK ase activation (3). on, and
		PhosphoScan [®] , our Lu a key substrate of FGF FGFR3 directly phospl can also be phosphor stimulation (5). Mutat	C-MS/MS platform f FR3 in human t(4;14 horylates RSK2 on T ylated at Tyr529 by iions in the RSK2 ge	dentified at Cell Signalir or phosphorylation site)-positive multiple myelo yr529, which primes RSI Src family tyrosine kinas ne are associated with Cretardation and the pres	discovery. This stud oma (MM) cells. Cor K2 for activation by ses Src and Fyn in re Coffin-Lowry syndro	ly identifies RSK2 as nstitutively active ERK1/2 (4). RSK2 esponse to EGF me (CLS), an X-
Background References		 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. Kang, S. et al. (2007) Cancer Cell 12, 201-14. Kang, S. et al. (2007) J Biol Chem Submitted for Publication Delaunoy, J.P. et al. (2006) Clin Genet 70, 161-6. 				
Species Reactivity		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				
Cross-Reactivity Key		H: Human Mk: Monkey				

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