#3556 Store at -200

Phospho-RSK2 (Ser227) (D53A11) Rabbit mAb



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Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 90	Source/Isotype: Rabbit IgG	UniProt ID: #P51812, #Q15418	Entrez-Gene Id: 6197, 6195
Product Usage Information	Ар	plication			Dilution	
	We	estern Blotting			1:1000	
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sens	pho	Phospho-RSK2 (Ser227) (D53A11) Rabbit mAb detects endogenous levels of RSK2 only when phosphorylated at Ser227. It shows cross-reactivity with RSK1 when phosphorylated at the homologous serine residues.				
Source / Purificat		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser227 of human RSK2.				
Background	cha extr don acti	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).				
	to s	PDK1 phosphorylates Ser227 in the activation loop of the amino-terminal kinase domain of RSK2, leading to substantial activation of the kinase <i>in vitro</i> and <i>in vivo</i> . The constitutively active PDK1 cooperates with ERK in the activation of RSK following the exposure of cells to growth factors or UV-light (4, 5).				
Background References		mith, J.A. et al. (199 alby, K.N. et al. (199 ensen, C.J. et al. (19	Blenis, J. (1996) <i>Mol Cell Biol</i> 16, 1212-9. (1999) <i>J Biol Chem</i> 274, 2893-8. (1998) <i>J Biol Chem</i> 273, 1496-505. al. (1999) <i>J Biol Chem</i> 274, 27168-76. al. (2000) <i>Oncogene</i> 19, 4221-9.			

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

WB: Western Blotting

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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