

RSK1/RSK2/RSK3 (D7A2H) Rabbit mAb

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Hm Mk B Dg Pg	Endogenous	90	Rabbit IgG	#P51812, #Q15349, #Q15418	6197, 6196, 6195

Product Usage Information	Application	Dilution
	Western Blotting	1:1000
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	RSK1/RSK2/RSK3 (D7A2H) Rabbit mAb recognizes endogenous levels of total RSK1, RSK2, and RSK3 proteins. This antibody is predicted to cross-react with RSK4 but has approximately 100-fold greater affinity for RSK1, RSK2, and RSK3. This antibody does not cross-react with other homologous RSK family members, such as human or mouse MSK1 or MSK2.	
Species predicted to react based on 100% sequence homology	Xenopus, Zebrafish, Guinea Pig	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro583 of human RSK1 protein (Pro587 in hRSK2, Pro580 in hRSK3).	
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).	
Background References	<ol style="list-style-type: none"> 1. Fisher, T.L. and Blenis, J. (1996) <i>Mol Cell Biol</i> 16, 1212-9. 2. Smith, J.A. et al. (1999) <i>J Biol Chem</i> 274, 2893-8. 3. Dalby, K.N. et al. (1998) <i>J Biol Chem</i> 273, 1496-505. 	

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 M: Mouse R: Rat Hm: Hamster Mk: Monkey B: Bovine Dg: Dog Pg: Pig
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