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#9346

Phospho-p90RSK (Thr573) Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 90	Source/Isotype: Rabbit	UniProt ID: #Q15418	Entrez-Gene Id: 6195
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Product Usage Information	Application Western Blotting Immunofluorescence (Immunocytochemistry)	Dilution 1:1000 1:400
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-p90RSK (Thr573) Antibody detects endogenous p90RSK protein only when phosphorylated at Thr573.	
Species predicted to react based on 100% sequence homology	Hamster, Chicken, Xenopus, Zebrafish	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr573 of human p90RSK. Antibodies are purified by protein A and peptide affinity chromatography.	
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 IF-IC: Immunofluorescence (Immunocytochemistry)	
Cross-Reactivity Key	H: Human M: Mouse R: Rat	
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