

Phospho-p90RSK (Ser380) Antibody

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

Product Usage Information	Application	Dilution
	Western Blotting	1:1000
	Immunoprecipitation	1:50
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 (Ser380) Antibody detects endogenous levels of p90RSK only when phosphorylated at Ser380. This antibody does not recognize p90RSK phosphorylated at other sites. It shows some cross-reactivity with RSK2 and RSK3 when phosphorylated at the homologous serine residues.	
Species predicted to react based on 100% sequence homology	Hamster, Dog	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser380 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 IP: Immunoprecipitation
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey
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