

#9341 Store at -20°C

## Phospho-p90RSK (Ser380) Antibody



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

<b>Applications:</b> WB, IP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 90	<b>Source:</b> Rabbit	<b>UniProt ID:</b> #P51812, #Q15349, #Q15418	<b>Entrez-Gene Id:</b> 6197, 6196, 6195
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting Immunoprecipitation	<b>Dilution</b> 1:1000 1:50
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	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.	
<b>Species predicted to react based on 100% sequence homology:</b>	Hamster, Dog	
<b>Source / Purification</b>	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.	
<b>Background</b>	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).	
<b>Background References</b>	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.	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting <b>IP:</b> Immunoprecipitation
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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