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#9335

## Phospho-p90RSK (Ser380) (9D9) Rabbit mAb

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

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

<b>Product Usage Information</b>	<b>Application</b>	<b>Dilution</b>
	Western Blotting	1:1000
<b>Storage</b>	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.	
	For a carrier free (BSA and azide free) version of this product see product #63432.	
<b>Specificity/Sensitivity</b>	Phospho-p90RSK (Ser380) (9D9) Rabbit mAb detects endogenous levels of p90RSK only when phosphorylated at Ser380. 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>	Chicken	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser380 of human p90RSK.	
<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>	<ol style="list-style-type: none"> <li>1. Fisher, T.L. and Blenis, J. (1996) <i>Mol Cell Biol</i> 16, 1212-9.</li> <li>2. Smith, J.A. et al. (1999) <i>J Biol Chem</i> 274, 2893-8.</li> <li>3. Dalby, K.N. et al. (1998) <i>J Biol Chem</i> 273, 1496-505.</li> </ol>	
<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>W:</b> Western Blotting	
<b>Cross-Reactivity Key</b>	<b>H:</b> Human <b>M:</b> Mouse <b>R:</b> Rat <b>Mk:</b> Monkey	
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