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Phospho-p90RSK (Ser380) (D3H11) Rabbit mAb



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Applications: W, IHC-P, IF-IC	Reactivity: H M R Mk Mi	Sensitivity: Endogenous	MW (kDa): 90	Source/Isotype: Rabbit IgG	UniProt ID: #P51812, #Q15349, #Q15418	Entrez-Gene Id: 6197, 6196, 6195
Product Usage Information		Application Western Blotting Immunohistochemistr Immunofluorescence (istry)		Dilution 1:1000 1:300 1:800
Storage		Supplied in 10 mM sod 0.02% sodium azide. St				l and less than
		For a carrier free (BSA	and azide free) ver	sion of this product se	e product #93317.	
Specificity/Sens	itivity Phospho-p90RSK (Ser380) (D3H11) Rabbit mAb recognizes endogenous levels of p90RSK1 protein whe phosphorylated at Ser380. This antibody also detects p90RSK2 phosphorylated at Ser386 and p90RSK2 phosphorylated at Ser377.					
Species predict based on 100% homology	ed to react sequence	Chicken, Xenopus, Zeb	rafish, Bovine, Dog	, Pig, Horse		
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser377 of human p90RSK3 protein.				
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).				
		Upon mitogenic stimul at Thr573 (RSK1 numbe linker region between of the p90RSK C-termir a hydrophobic stretch the constitutively active the N-terminal kinase of Antibodies against the of p90RSK activation.Fo isoform, including mor phosphorylation casca (www.phosphosite.org	ering) located within the two kinase dom hal kinase domain p of the linker region e Ser/Thr kinase PE domain activation l se phosphorylation for more information re information rega des involved, pleas	in the C-terminal kinas nains (3). Phosphoryla promotes activation a (4,5). When phospho DK1, which in turn pho oop, resulting in full e n sites are useful for u n regarding the phosp irding the seminal stu	e domain and at Thr3 tion at Thr573 within the dphosphorylation at rylated, Ser380 acts as sphorylates p90RSK at nzymatic activation of nderstanding the kinet oho-regulatory sites wi dies demonstrating the	59/Ser363 in the he activation loop Ser380 within the a docking site for Ser221 within p90RSK (6). ics and regulation thin each p90RSK e complex
Background Re	ferences	1. Fisher, T.L. and Bleni: 2. Smith, J.A. et al. (199 3. Dalby, K.N. et al. (199 4. Roux, P.P. et al. (200 5. Cargnello, M. and Ro 6. Romeo, Y. et al. (201	9) <i>J Biol Chem</i> 274, 98) <i>J Biol Chem</i> 273 8) <i>Mol Cell Biol</i> 23, 4 50 x, P.P. (2011) <i>Mici</i>	2893-8. , 1496-505. 4796-804. <i>robiol Mol Biol Rev</i> 75,	50-83.	

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 IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)		
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey Mi: Mink		
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