## #13575 Store at +4C

## Phospho-p90RSK (Ser380) (D5D8) Rabbit mAb (Alexa Fluor<sup>®</sup> 647 Conjugate)



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Applications: FC-FP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P51812, #Q15349, #Q15418	Entrez-Gene Id: 6197, 6196, 6195
Product Usage Information		<b>Application</b> Flow Cytometry (Fixed/Peri	meabilized)		<b>Dilution</b> 1:50
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.			Store at 4°C. Do not aliquot the
Specificity/Sensiti	vity	Phospho-p90RSK (Ser380) (D5D8) Rabbit mAb (Alexa Fluor <sup>®</sup> 647 Conjugate) recognizes endogenous levels of RSK1, RSK2, and RSK3 proteins only when phosphorylated at Ser380 (RSK1), Ser386 (RSK2), or Ser377 (RSK3).			
Species predicted based on 100% sec homology		Chicken, Xenopus, Zebrafish, Bovine, Dog, Pig, Horse			
Source / Purificati	on	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser377 of human p90RSK3 protein.			
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor <sup>®</sup> 647 fluorescent dye and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-p90RSK (Ser380) (D5D8) Rabbit mAb #12032.			
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). crazy			
		Thr573 within the activatio and directs phosphorylatio p90RSK phosphorylated at PDK1, which in turn phospl	1 numbering) located r region between the n loop of the p90RSK n of Ser380 within th Ser380 acts as a doc horylates Ser221 with activation of the p90F	d within the carboxy-tern two kinase domains (3). carboxy-terminal kinase e hydrophobic stretch of king site for the constitut nin the amino-terminal ki RSK (6). Antibodies agains	ninal kinase domain and at Phosphorylation of p90RSK at domain promotes activation the linker region (4,5). The tively active Ser/Thr kinase nase domain activation loop, st these phosphorylation sites
		For more information rega information regarding the involved, please see the ref	seminal studies dem	onstrating the complex p	
Background Refer	ences	1. Fisher, T.L. and Blenis, J. ( 2. Smith, J.A. et al. (1999) / 3. Dalby, K.N. et al. (1998) / 4. Roux, P.P. et al. (2003) <i>M</i> 5. Cargnello, M. and Roux, 6. Romeo, Y. et al. (2012) <i>B</i>	Biol Chem 274, 2893- Biol Chem 273, 1496 ol Cell Biol 23, 4796-8 P.P. (2011) Microbiol	-505. :04. <i>Mol Biol Rev</i> 75, 50-83.	
Species Reactivity		Species reactivity is determ	nined by testing in at	least one approved appli	cation (e.g., western blot).
Applications Key		FC-FP: Flow Cytometry (Fixe	ed/Permeabilized)		

Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey
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