EPAC2 (5B1) Mouse mAb			
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com	
9	Support:	877-678-TECH (8324)	
#4156	Web:	info@cellsignal.com cellsignal.com	
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For Research Use Only. Not for Use in Diagnostic Procedures.			

Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 115	Source/Isotype: Mouse IgG2a	UniProt ID: #Q9EQZ6	Entrez-Gene Id: 56508		
Product Usage	A	pplication			Dilution			
Information	W	estern Blotting			1:1000			
Storage		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.						
Specificity / Sensi	itivity EP	EPAC2 (5B1) Mouse mAb detects endogenous levels of total EPAC2 protein.						
Source / Purificati	i <b>on</b> Mo	Monoclonal antibody is produced by immunizing animals with a recombinant fragment of mouse EPAC2.						
Background	(GI act (PI mig	EPAC1 and EPAC2 (exchange proteins activated by cyclic AMP) are guanine nucleotide exchange factors (GEFs) that catalyze the exchange of GDP for GTP, activating Rap1 and Rap2 small GTPases. Rap activation by EPAC is cAMP-dependent and mediates cAMP signaling in part through protein kinase A (PKA) (reviewed in 1). EPAC signaling plays a significant role in a number of cellular processes including migration and focal adhesion formation (2), exocytosis (3), insulin signaling (4), axon growth and guidance (5) and neurotransmitter release (6).						
Background Refe	2. L 3. E 4. F 5. N	<ol> <li>Bos, J.L. (2006) <i>Trends Biochem Sci</i> 31, 680-6.</li> <li>Lyle, K.S. et al. (2008) <i>Cell Signal</i> 20, 1104-16.</li> <li>Branham, M.T. et al. (2009) <i>J Biol Chem</i> 284, 24825-39.</li> <li>Petersen, R.K. et al. (2008) <i>Mol Cell Biol</i> 28, 3804-16.</li> <li>Murray, A.J. and Shewan, D.A. (2008) <i>Mol Cell Neurosci</i> 38, 578-88.</li> <li>Ouyang, M. et al. (2008) <i>Proc Natl Acad Sci USA</i> 105, 11993-7.</li> </ol>						
Species Reactivity	<b>y</b> Spe	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Buff		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key	WE	3: Western Blotting						
Cross-Reactivity I	X: >	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected						
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	app Cus that end ther	roved, cleared, or lice tomer shall not use a conflicts with its labe -user and solely for re apeutic purposes, or	ensed by the FDA ny Product for a ling statement. F esearch and deve any purchase of	Use Only or a similar lab A or other regulatory fore by diagnostic or therape Products sold or licensec elopment uses. Any use Product for resale (alon o CST. Customer shall (a	sign or domestic entity utic purpose, or other I by CST are provided of Product for diagno e or as a component)	y, for any purpose. wise in any manner I for Customer as the stic, prophylactic or or other commercial		

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