EPAC2 (5B1) Mouse mAb



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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 115	Source/Isotype: Mouse IgG2a	UniProt ID: #Q9EQZ6	Entrez-Gene Id: 56508
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		EPAC2 (5B1) Mouse mAb detects endogenous levels of total EPAC2 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a recombinant fragment of mouse EPAC2.				
Background		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 References		 Bos, J.L. (2006) Trends Biochem Sci 31, 680-6. Lyle, K.S. et al. (2008) Cell Signal 20, 1104-16. Branham, M.T. et al. (2009) J Biol Chem 284, 24825-39. Petersen, R.K. et al. (2008) Mol Cell Biol 28, 3804-16. Murray, A.J. and Shewan, D.A. (2008) Mol Cell Neurosci 38, 578-88. Ouyang, M. et al. (2008) Proc Natl Acad Sci USA 105, 11993-7. 				
Species Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		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

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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