#4155 Store at -20C

EPAC1 (5D3) Mouse mAb



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Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 100	Source/Isotype: Mouse IgG2a	UniProt ID: #O95398	Entrez-Gene Id: 10411
Product Usage Information	• • • • • • • • • • • • • • • • • • • •	Dlication stern Blotting		Dilution 1:1000		
Storage	Supp	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 / Sensit	nsitivity Epac1 (5D3) Mouse mAb detects endogenous levels of total				ac1 protein.	
Source / Purification	on Mon	Monoclonal antibody is produced by immunizing animals with a recombinant fragment of human Epac				
Background	(GEF activ (PKA migra	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 Refer	2. Ly 3. Br 4. Pe 5. Mi	 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 Reactivity

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting

Cross-Reactivity Key

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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