Revis	ion 1				
e at -20C	Rabex-5 (D21F12) Rabbit mAb	Ce T E	Cell Signaling		
Stor		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 60-80	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UJ41	Entrez-Gene Id: 27342		
Product Usage Information	9	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100			
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/Sensitivity		Rabex-5 (D21F12) Rabbit mAb recognizes endogenous levels of total Rabex-5 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Rabex-5 protein.						
Background		Rabex-5, also called RabGEF1 and RAP1, was identified as a guanine nucleotide exchange factor (GEF) for Rab5, a member of the Ras superfamily of small Rab GTPases (1). Rabex-5 generates the GTP-bound active form of Rab5 and forms a tight association with its effector protein Rabaptin-5 (2). This complex localizes to endosomal membranes where it functions as a key regulator of vesicular trafficking during early endocytosis (3,4). Rabex-5 is also monoubiquitinated and has ubiquitin ligase activity that regulates its recruitment to early endosomes (5,6). The conformational change between Rab5 GTP/GDP states is essential for its biological function as a rate limiting regulator at multiple steps during endocytosis (5). Through its control of endosomal trafficking and endocytosis, Rabex-5 has been shown to negatively regulate NGF-mediated neurite outgrowth (7) as well as FccRI-dependent mast cell activation (8).						
Background R	eferences	1. Horiuchi, H. et al. (19) 2. Lippé, R. et al. (2001) 3. Zerial, M. and McBrid 4. van der Bliek, A.M. (2) 5. Mattera, R. et al. (200 6. Mattera, R. and Bonif 7. Liu, J. et al. (2007) <i>Mo</i> 8. Tam, S.Y. et al. (2004)	97) <i>Cell</i> 90, 1149-5 <i>Mol Biol Cell</i> 12, 2 e, H. (2001) <i>Nat R</i> 005) <i>Nat Cell Biol</i> 6) <i>J Biol Chem</i> 281 acino, J.S. (2008) <i>E</i> <i>I Biol Cell</i> 18, 1375 <i>Nat Immunol</i> 5, 8	9. 219-28. <i>ev Mol Cell Biol</i> 2, 107-1 7, 548-50. , 6874-83. <i>MBO J</i> 27, 2484-94. 5-84. 44-52.	7.			
Species Reacti	vity	Species reactivity is dete	ermined by testing	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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	ley	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat						
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