e at -20C	Rabex-5 (D21F12) Rabbit mAb			
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
2		Support:	877-678-TECH (8324)	
<b>‡7622</b>		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane Danvers	Massachusetts   01923   USA	
For Re	esearch Use Only, Not for Use in Diagnostic Procedures.			

Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 60-80	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UJ41	Entrez-Gene lo 27342		
Product Usage	Ар	Application Dilution						
Information	We	Western Blotting 1:1000						
	Im	munoprecipitation			1:100			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity / Sensitiv	<b>vity</b> Rab	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	for F activ loca earl its r ess Thre	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 Refere	2. L 3. Z 4. v 5. M 6. M 7. L	an der Bliek, A.M. (2 lattera, R. et al. (200	) Mol Biol Cell 12 le, H. (2001) Nat 2005) Nat Cell Bio 06) J Biol Chem 2 facino, J.S. (2008 lol Biol Cell 18, 13	, 2219-28. <i>Rev Mol Cell Biol</i> 2, 10 ol 7, 548-50. 281, 6874-83. 8) <i>EMBO J</i> 27, 2484-94. 375-84.				
Species Reactivity	Spec	cies reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., we	estern 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 Key	WB	WB: Western Blotting IP: Immunoprecipitation						
Cross-Reactivity Ke	<b>X:</b> 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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Rabex-5 (D21F12) Rabbit mAb (#7622) Datasheet Without Images Cell Signaling Technology

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