Rab7 Antibody	<b>Cell Signaling</b> TECHNOLOGY®			
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com		
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For Research Use Only. Not for Use in Diagnostic Procedures.				

Applications: W	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 23	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P51149	Entrez-Gene Id: 7879	
Product Usage Information		<b>Application</b> Western Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sensitivity Rab7 Antibody detects endogenous levels of total Rab7 protein.							
Source / Purific	ation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding residue surrounding Asp193 of human Rab7. Antibodies are purified by peptide affinity chromatography.					
Background		Rab7 and Rab9 are members of the Ras superfamily of small Rab GTPases (1). Both proteins are located in late endosomes, but exert different functions. Rab7 associates with the RIPL effector protein to control membrane trafficking from early to late endosomes and to lysosomes (2,3). Rab7 also helps to regulate growth receptor endocytic trafficking and degradation (3,4), and maturation of phagosome and autophagic vacuoles (4-6). Rab9 interacts with its effector proteins p40 and TIP47 (7,8) to promote the MPR (mannose 6-phosphate receptor)-associated lysosomal enzyme transport between late endosomes and the trans Golgi network (9,10).					
Background Re	ferences	<ol> <li>Zerial, M. and McBride, H. (2001) <i>Nat Rev Mol Cell Biol</i> 2, 107-17.</li> <li>Feng, Y. et al. (1995) <i>J Cell Biol</i> 131, 1435-52.</li> <li>Méresse, S. et al. (1995) <i>J Cell Sci</i> 108 (Pt 11), 3349-58.</li> <li>Ceresa, B.P. and Bahr, S.J. (2006) <i>J Biol Chem</i> 281, 1099-106.</li> <li>Jäger, S. et al. (2004) <i>J Cell Sci</i> 117, 4837-48.</li> <li>Méresse, S. et al. (1999) <i>EMBO J</i> 18, 4394-403.</li> <li>Díaz, E. et al. (1997) <i>J Cell Biol</i> 138, 283-90.</li> <li>Barbero, P. et al. (2002) <i>J Cell Biol</i> 156, 511-8.</li> <li>Lombardi, D. et al. (1993) <i>EMBO J</i> 12, 677-82.</li> <li>Riederer, M.A. et al. (1994) <i>J Cell Biol</i> 125, 573-82.</li> </ol>					
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot B	uffer	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 Ke	ey 🛛	W: Western Blotting					
Cross-Reactivit	у Кеу	H: Human M: Mouse R: Rat					
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