

95746

Rab7 (E9O7E) Mouse mAb



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Applications: W, IP, IHC-P, IF-F, IF- IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 23	Source/Isotype: Mouse IgG1	UniProt ID: #P51149	Entrez-Gene Id: 7879
Product Usage		Application			Dilution	
Information		Western Blotting Immunoprecipitation Immunohistochemistry (Paraffin)			1:1000 1:50 1:100 - 1:400	
		Immunofluorescence (Frozen)			1:50 - 1:200	
		Immunofluorescence (Immunocytochemistry)			1:50 - 1:200	
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		Rab7 (E9O7E) Mouse mAb recognizes endogenous levels of total Rab7 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu188 of human Rab7 protein.				
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 References		1. Zerial, M. and McBride, H. (2001) <i>Nat Rev Mol Cell Biol</i> 2, 107-17. 2. Feng, Y. et al. (1995) <i>J Cell Biol</i> 131, 1435-52. 3. Méresse, S. et al. (1995) <i>J Cell Sci</i> 108 (Pt 11), 3349-58. 4. Ceresa, B.P. and Bahr, S.J. (2006) <i>J Biol Chem</i> 281, 1099-106. 5. Jäger, S. et al. (2004) <i>J Cell Sci</i> 117, 4837-48. 6. Méresse, S. et al. (1999) <i>EMBO J</i> 18, 4394-403. 7. Díaz, E. et al. (1997) <i>J Cell Biol</i> 138, 283-90. 8. Barbero, P. et al. (2002) <i>J Cell Biol</i> 156, 511-8. 9. Lombardi, D. et al. (1993) <i>EMBO J</i> 12, 677-82. 10. Riederer, M.A. et al. (1994) <i>J Cell Biol</i> 125, 573-82.				

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 W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-F:

Immunofluorescence (Frozen) **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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