Rab9 (D22A6) Rabbit mAb



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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 23	Source/Isotype: Rabbit IgG	UniProt ID: #P51151	Entrez-Gene Id: 9367
Product Usage Information	•	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
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		Rab9 (D22A6) Rabbit mAb detects endogenous levels of total Rab9 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the amino terminus of human Rab9 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 BSA, 1X

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting IP: Immunoprecipitation

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

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