Rab8A (D22D8) XP® Rabbit mAb



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Applications: W, IP, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 23	Source/Isotype: Rabbit IgG	UniProt ID: #P61006	Entrez-Gene Id: 4218
Product Usage Information	2	Application Western Blotting Immunoprecipitation Immunofluorescence	(Immunocytochem	istry)		Dilution 1:1000 1:200 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		Rab8A (D22D8) XP [®] Rabbit mAb recognizes endogenous levels of total Rab8A protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys175 of human Rab8A protein.				
Background		The Rab8 GTPase is a member of the Ras superfamily that functions in protein transport and membrane restructuring (1). Studies show that Rab8 is localized to the trans Golgi network (TGN), basolateral membrane, and vesicular structures where it helps regulate target protein transport between TGN and the basolateral membrane (1-3). Overexpression studies and mutation analysis of Rab8 and its associated Rab8GEF indicate additional roles in actin and microtubule remodeling during polarized membrane transport and membrane protrusion formation (4-6). Rab8 associates with myosin Vb and is required for translocation of GLUT4 following insulin stimulation in muscle (7,8). Control of target protein vesicle transport by Rab8 also regulates MT1-MMP activity during extracellular matrix formation and JRAB/MICAL-L2 at tight junction formation (9,10).				
Background References		 Chen, Y.T. et al. (1993) Proc Natl Acad Sci USA 90, 6508-12. Huber, L.A. et al. (1993) J Cell Biol 123, 35-45. Henry, L. and Sheff, D.R. (2008) Mol Biol Cell 19, 2059-68. Peränen, J. et al. (1996) J Cell Biol 135, 153-67. Hattula, K. et al. (2002) Mol Biol Cell 13, 3268-80. Hattula, K. et al. (2006) J Cell Sci 119, 4866-77. Ishikura, S. and Klip, A. (2008) Am J Physiol Cell Physiol 295, C1016-25. Randhawa, V.K. et al. (2008) J Biol Chem 283, 27208-19. Bravo-Cordero, J.J. et al. (2007) EMBO J 26, 1499-510. Yamamura, R. et al. (2008) Mol Biol Cell 19, 971-83. 				

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 IF-IC: Immunofluorescence (Immunocytochemistry)

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

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