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## Rab1A (D5F8M) Rabbit mAb



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Applications: W	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 22	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P62820	<b>Entrez-Gene Id:</b> 5861		
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, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	Rab1A (D5F8M) Rabbit mAb recognizes endogenous levels of total Rab1A protein.						
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys103 of human Rab1A protein.						
Background Background Re	groundRas-related protein Rab1A (Rab1A) is a member of the Ras superfamily of cellular G proteins that function in protein transport and membrane restructuring (1). Early immunofluorescence studies determined that Rab1A localizes to a region between the endoplasmic reticulum (ER) and the Golgi complex, and in early Golgi compartments (2). Rab1A binds and recruits the COPII complex tetherin factor p115 to a cis-SNARE complex associated with COPII-coated, budding vesicles on the endopla reticulum (3). A Rab1 effector complex containing several proteins, including the cis-Golgi tethering protein GM130 and the stacking protein GRASP65, is essential for targeting and fusion of COPII-coa vesicles with the Golgi complex (4). Rab1A also interacts with the golgin tethering and docking prot giantin (GOLGB1) and golgin-84 to regulate Golgi structure formation and function (5,6). Thus, Rab plays an important role in mediating the export of newly synthesized target proteins from ER to the Golgi. As with other Rab proteins, Rab1A function requires an intrinsic GTPase cycling activity facilit by associated GEF and GAP factors (7-9). In addition to mediating ER to Golgi transport, Rab1A is al involved in autophagy during early autophagosome formation (10,11).ground References1. Zerial, M. and McBride, H. (2001) Nat Rev Mol Cell Biol 2, 107-17. 2. Saraste, J. et al. (1995) J Cell Sci 108 (Pt 4), 1541-52. 3. Allan, B.B. et al. (2000) Science 289, 444-8.					ence studies and the Golgi omplex tethering on the endoplasmic Golgi tethering on of COPII-coated d docking proteins 5,6). Thus, Rab1A from ER to the g activity facilitated		
		<ol> <li>Anali, B.B. et al. (20)</li> <li>Moyer, B.D. et al. (20)</li> <li>Koreishi, M. et al. (20)</li> <li>Satoh, A. et al. (200)</li> <li>Nuoffer, C. et al. (19)</li> <li>Pind, S.N. et al. (20)</li> <li>Haas, A.K. et al. (20)</li> <li>Huang, J. et al. (20)</li> <li>Lipatova, Z. et al. (20)</li> </ol>	6. 59821. 225-37. 39-52. 97-3010. 7-26.					
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Species Reactiv	/ity	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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				1 5% w/v BSA, 1X		
Applications Ke	ey	W: Western Blotting						
Cross-Reactivit	у Кеу	H: Human M: Mouse R: Rat						
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