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Golgin-97 (CDF4) Mouse mAb



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Applications: W, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 97	Source/Isotype: Mouse IgG1	UniProt ID: #Q92805	Entrez-Gene Id: 2800	
Product Usage Information Storage			dium HEPES (pH 7.5	5), 150 mM NaCl, 100 μg	/ml BSA, 50% glycei	Dilution 1:1000 1:200 rol and less than	
-		0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
Specificity/Sen	-	Golgin-97 (CDF4) Mouse mAb recognizes endogenous levels of total golgin-97 protein.					
	Source / Purification Monoclonal antibody is produced by immunizing animals with recombinant human Golgin-S					5	
Background Background Re	eferences	The Golgi-associated protein golgin A1 (GOLGA1, golgin-97) was first isolated as a Golgi complex autoantigen associated with the autoimmune disorder Sjogren's syndrome (1). The golgin-97 protei contains a carboxy-terminal GRIP domain and is a commonly used trans-Golgi network (TGN) marked All four known mammalian GRIP domain-containing proteins (golgin-97, golgin-245, GCC88, and GCC185) are found in the TGN, share extensive alpha-helical structure, and form homodimers (2). W all four golgin proteins localize to the TGN, they exhibit different membrane-binding abilities and ar found in distinct TGN regions (3). Golgin-97 and golgin-245 are targeted to the TGN through an interaction between their GRIP domains and the Arl1 protein switch II region (4). Overexpression studies and siRNA assays with GRIP domain-containing proteins suggest that these proteins help to maintain TGN integrity and function by controlling localization of TGN resident proteins (5). By using Shiga toxin B fragment (STxB)-based <i>in vitro</i> transport assay and an E-cadherin transport model system, golgin-97 and its effector Arl1-GTP were shown to play a role in trans-Golgi endosomal trafficking (6,7). Research studies also suggest that golgin-97 may play a role in poxvirus morphogenesis and maturation (8,9).					
 Luke, M.R. et al. (2005) <i>Biochem J</i> 388, 835-41. Derby, M.C. et al. (2004) <i>J Cell Sci</i> 117, 5865-74. Lu, L. and Hong, W. (2003) <i>Mol Biol Cell</i> 14, 3767-81. Yoshino, A. et al. (2003) <i>J Cell Sci</i> 116, 4441-54. Lu, L. et al. (2004) <i>Mol Biol Cell</i> 15, 4426-43. Lock, J.G. et al. (2005) <i>Traffic</i> 6, 1142-56. Alzhanova, D. and Hruby, D.E. (2006) <i>J Virol</i> 80, 11520-7. Alzhanova, D. and Hruby, D.E. (2007) <i>Virology</i> 362, 421-7. 							
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot E	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 K	ey	W: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)					
Cross-Reactivi	ty Key	H: Human					
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