Revision 1

2296 Store at -20C

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## GM130 Antibody



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Applications: W, IP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 130	Source/Isotype: Rabbit	<b>UniProt ID:</b> #Q08379	Entrez-Gene Id: 2801		
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:25			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Sens	pecificity/Sensitivity GM130 Antibody detects endogenous levels of total GM130 protein.							
Source / Purifica	<b>/ Purification</b> Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding the amino-terminal sequence of human GM130.					corresponding to		
Background	The Golgi apparatus functions in the modification, organization, and transport of proteins and membranes targeted to other parts of the cell, such as the plasma membrane, lysosomes, and endosomes. This regulated transport is important for appropriate protein localization, secretion, a signal transduction. Members of the Golgin family of proteins, including GM130, Giantin, p115, an GRASP65, are defined by their presence in the Golgi matrix and by their long coiled-coil domains. Golgin function, which is regulated in part by small GTPases of the Rab and Arl families, includes establishing and maintaining Golgi structure and transport (reviewed in 1). The Golgi cisternae are stacked and linked laterally to form a ribbon. GRASP65 and GM130 are required for membrane fus events that mediate ribbon formation during Golgi assembly. These lateral fusion events allow for uniform distribution of Golgi enzymes (2). GM130 and Giantin interact with the transport factor p1 facilitate endoplasmic reticulum (ER)-Golgi transport (3). GM130 is also involved in the transport of ether-a-go-go-related (hERG) potassium ion channel. Inappropriate hERG localization may be an underlying cause of long QT syndrome, a hereditary and potentially fatal cardiac arrhythmia (4). Further, GM130 was implicated in signal transduction regulating invasion, migration, and cell polarization via its interaction with and activation of serine/threonine kinases YSK1 and Mst4 (5).					teins and omes, and n, secretion, and ntin, p115, and oil domains. es, includes cisternae are nembrane fusion ents allow for port factor p115 to e transport of the may be an nythmia (4). and cell nd Mst4 (5).		
Background Ref	erences	<ol> <li>Barr, F.A. and Short, B. (2003) <i>Curr. Opin. Cell Biol.</i> 15, 405-413.</li> <li>Puthenveedu, M.A. et al. (2006) <i>Nat. Cell Biol.</i> 8, 238-248.</li> <li>Alvarez, C. et al. (2001) <i>J. Biol. Chem.</i> 276, 2693-2700.</li> <li>Roti, E.C. et al. (2002) <i>J. Biol. Chem.</i> 277, 47779-47785.</li> <li>Preisinger, C. et al. (2004) <i>J. Cell Biol.</i> 164, 1009-1020.</li> </ol>						
Species Reactivi	ty	Species reactivity is de	termined by testing	in at least one approve	d application (e.g.,	western blot).		
Western Blot Bu	lffer	IMPORTANT: For weste TBS, 0.1% Tween® 20 a	ern blots, incubate r at 4°C with gentle s	n blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X 4°C with gentle shaking, overnight.				
Applications Ke	y	W: Western Blotting IP	: Immunoprecipita	tion				
Cross-Reactivity	Кеу	H: Human						
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