e at -20C	GM130 (D6B1) XP [®] Rabbit mAb		Cell Signaling тесныогоду®
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, W-S, IP, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Rabbit IgG	UniProt ID: #Q08379	Entrez-Gene Id: 2801		
Product Usage Information	Ap We Sin Imi	plication estern Blotting nple Western™ munoprecipitation munofluorescence (I	mmunocytochen	nistry)	Di 1: 1: 1: 1:	ilution 1000 50 - 1:250 100 3200		
Storage	Sup 0.02	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 / Sensitivity GM130 (D6B1) XP [®] Rabbit mAb recognizes endogenous cross-react with a protein of unknown origin at 30 kDa.					vels of total GM130 protein. This antibody may			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Thr185 of human GM130 protein.						
Background	The targ regu Mer theii in p and GR/ Golg Gia GM Inap pote inva YSM	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, and signal transduction. Members of the Golgin family of proteins, including GM130, Giantin, p115, and 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 fusion 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 p115 to facilitate endoplasmic reticulum (ER)-Golgi transport (3). GM130 is also involved in the transport of the 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).						
Background Refere	nces 1. B 2. P 3. A 4. R 5. P	arr, F.A. and Short, E uthenveedu, M.A. et Ivarez, C. et al. (200 oti, E.C. et al. (2002) reisinger, C. et al. (2	3. (2003) Curr. O al. (2006) Nat. (1) J. Biol. Chem.) J. Biol. Chem. 1 004) J. Cell Biol.	pin. Cell Biol. 15, 405-4 Cell Biol. 8, 238-248. . 276, 2693-2700. 277, 47779-47785. 164, 1009-1020.	13.			
Species Reactivity	Spec	ies reactivity is dete	rmined by testing	g in at least one approve	ed application (e.g., we	estern blot).		
Western Blot 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 Key	WB: IF-IC	WB: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivity Ke	ey H: hu X: Xe GP:	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected 						

Trademarks and Patents GM130 (D6B1) XP® Rabbit mAb (#12480) Datasheet Without Images Cell Signaling Technology

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