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GLG1 (Golgi Glycoprotein 1) (Marker for Human Cells) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone GLG1/970]
Catalog # AH11335

Product Information

Application	WB, IHC, IF, FC, ICC
Primary Accession	Q92896
Other Accession	2734, 109731
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, kappa
Clone Names	GLG1/970
Calculated MW	134552

Additional Information

Gene ID	2734
Other Names	Golgi apparatus protein 1, CFR-1, Cysteine-rich fibroblast growth factor receptor, E-selectin ligand 1, ESL-1, Golgi sialoglycoprotein MG-160, GLG1, CFR1, ESL1, MG160
Application Note	WB~~1:1000 IHC~~1:100~500 IF~~1:50~200 FC~~1:10~50 ICC~~N/A
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	GLG1 (Golgi Glycoprotein 1) (Marker for Human Cells) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GLG1
Synonyms	CFR1, ESL1, MG160
Function	Binds fibroblast growth factor and E-selectin (cell-adhesion lectin on endothelial cells mediating the binding of neutrophils).
Cellular Location	Golgi apparatus membrane; Single-pass type I membrane protein. Golgi outpost {ECO:0000250|UniProtKB:Q62638}. Cytoplasm, cytoskeleton, microtubule organizing center {ECO:0000250|UniProtKB:Q62638}. Note=Golgi medial cisternae. Localizes to the postsynaptic Golgi apparatus region, also named Golgi outpost, which shapes dendrite morphology by functioning as

	sites of acentrosomal microtubule nucleation. {ECO:0000250|UniProtKB:Q62638}
Tissue Location	Widely expressed. Highest levels in pancreas, skeletal muscle, placenta, heart, testis and ovary. Also found in the kidney, liver, lung and brain.

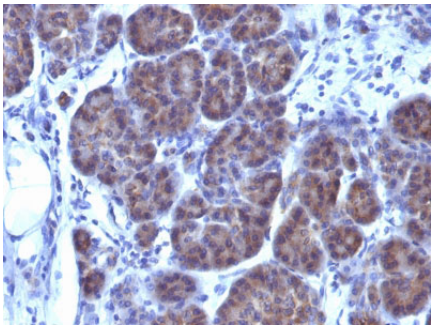
Background

This MAb recognizes a protein of 134kDa, which binds fibroblast growth factor and E-selectin (cell-adhesion lectin on endothelial cells mediating the binding of neutrophils). Fucosylation is essential for binding to E-selectin. It contains sialic acid residues and 16 Cys-rich GLG1 repeats. This MAb can be used to stain the Golgi complex in cell or tissue preparations and can be used as a Golgi marker in subcellular fractions. It produces a diffuse staining pattern of the Golgi zone in normal and malignant cells. This MAb is an excellent marker for human cells in xenographic model research. It reacts specifically with human cells. The Golgi apparatus is an organelle present in all eukaryotic cells that forms a part of the endomembrane system. The primary function of the Golgi apparatus is to process and package macromolecules synthesized by the cell for exocytosis or use within the cell. The Golgi is made up of a stack of flattened, membrane-bound sacs known as cisternae, with three functional regions: the cis face, medial region and trans face. Each region consists of various enzymes that selectively modify the macromolecules passing though them, depending on where they are destined to reside. Several spherical vesicles that have budded off of the Golgi are present surrounding the main cisternae. The Golgi tends to be more pronounced and numerous in cells that make and secrete many substances such as plasma B cells.

References

Nakamura et. al. 1995. J. Cell Biol. 131:1715-26. | Nakamura et.al. 1997. Cell. 89(3):445-55

Images



Formalin-fixed, paraffin-embedded human Pancreas stained with GLG1 Monoclonal Antibody (GLG1/970).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.