GOLPH3 Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	GOLPH3, Blocking Peptide
Full Product Name	GOLPH3 Antibody (C-term) Blocking Peptide
Product Gene Name	GOLPH3 blocking peptide
Product Synonym Gene Name	GPP34
Product Synonym Names	Golgi phosphoprotein 3; Coat protein GPP34; Mitochondrial DNA absence factor; MIDAS; GOLPH3; GPP34
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the C-term region of human GOLPH3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	GOLPH3 peptide (MBS9226895) is used for blocking the activity of GOLPH3 antibody (MBS9209171)
Molecular Weight	33,811 Da
OMIM	612207
Cellular Location	Golgi apparatus, Golgi stack membrane; Peripheral membrane protein; Cytoplasmic side. Golgi apparatus, trans-Golgi network membrane; Peripheral membrane protein; Cytoplasmic side. Mitochondrion intermembrane space. Cell membrane. Endosome. Note: Phosphatidylinositol 4-phosphate-binding and oligomerization participate in the recruitment onto Golgi membranes.
Tissue Location	Detected in muscle fibers of patients with mitochondrial diseases; not detected in normal muscle fibers
Related Product Information for GOLPH3 blocking peptide	Phosphatidylinositol-4-phosphate-binding protein that links Golgi membranes to the cytoskeleton and may participate in the tensile force required for vesicle budding from the Golgi. Thereby, may play a role in Golgi membrane trafficking and could indirectly give its flattened shape to the Golgi apparatus. May also bind to the coatomer to regulate Golgi membrane trafficking. May play a role in anterograde transport from the Golgi to the plasma membrane and regulate secretion. Has also been involved in the control of the localization of Golgi enzymes through interaction with their cytoplasmic part. May play an indirect role in cell migration. Has also been involved in the modulation of mTOR signaling. May also be involved in the regulation of mitochondrial lipids biosynthesis.
Other Notes	Small volumes of GOLPH3 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GOLPH3 purchase	MBS9226895 is a blocking peptide targeting GOLPH3. Also known as GOLPH3 Antibody (C-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GOLPH3. It may not necessarily be applicable to this product.

NCBI GI #	50400651
NCBI GeneID	64083
NCBI Accession #	Q9H4A6.1
UniProt Primary Accession #	Q9H4A6

UniProt Secondary Accession #	Q9UIW5
UniProt Related Accession #	Q9H4A6
NCBI Official Full Name	Golgi phosphoprotein 3
NCBI Official Synonym Full Names	golgi phosphoprotein 3
NCBI Official Symbol	GOLPH3
NCBI Official Synonym Symbols	GOPP1; GPP34; MIDAS; Vps74
UniProt Protein Name	Golgi phosphoprotein 3
UniProt Synonym Protein Names	Coat protein GPP34; Mitochondrial DNA absence factor; MIDAS
Protein Family	Golgi phosphoprotein
UniProt Gene Name	GOLPH3
UniProt Synonym Gene Names	GPP34; MIDAS
UniProt Entry Name	GOLP3_HUMAN
NCBI Protein Information	Golgi phosphoprotein 3
NCBI Summary for GOLPH3	The Golgi complex plays a key role in the sorting and modification of proteins exported from the endoplasmic reticulum. The protein encoded by this gene is a peripheral membrane protein of the Golgi stack and may have a regulatory role in Golgi trafficking. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of these variants has not been determined. [provided by RefSeq, Jul 2008]
UniProt Comments for GOLPH3	GOLPH3: Mediates the cis and medial Golgi localization of mannosyltransferases through direct binding of their cytosolic domains. Involved in modulation of mTOR signaling. Involved in the regulation of mitochondrial lipids, leading to increase of mitochondrial mass. Potential oncogene. Belongs to the GOLPH3/VPS74 family. Protein type: Mitochondrial Chromosomal Location of Human Ortholog: 5p13.3 Cellular Component: cytosol; Golgi apparatus; Golgi cisterna; intracellular membrane-bound organelle; mitochondrion; nucleoplasm; trans-Golgi network Molecular Function: enzyme binding; protein binding Biological Process: cell migration; cell proliferation; gene expression; glycoprotein biosynthetic process; Golgi organization and biogenesis; Golgi to plasma membrane protein transport; Golgi vesicle budding; lamellipodium biogenesis; leukocyte tethering or rolling; negative regulation of apoptosis; positive regulation of protein secretion; positive regulation of TOR signaling pathway; protein retention in Golgi; protein secretion
Research Articles on GOLPH3	**1.** GOLPH3 was expressed in prostate cancer cell lines. Our findings suggest GOLPH3 regulate MMP9 expression which impact cell migration and invasion.
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