

**GOLPH3 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7445a****Specification**

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**GOLPH3 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q9H4A6](#)**GOLPH3 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 64083**Other Names**

Golgi phosphoprotein 3, Coat protein GPP34, Mitochondrial DNA absence factor, MIDAS, GOLPH3, GPP34

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7445a](/products/AP7445a) was selected from the N-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.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**GOLPH3 Antibody (N-term) Blocking Peptide - Protein Information****Name** GOLPH3**Synonyms** GPP34**Function**

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.

**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

**GOLPH3 Antibody (N-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**GOLPH3 Antibody (N-term) Blocking Peptide - Images****GOLPH3 Antibody (N-term) Blocking Peptide - Background**

The Golgi complex plays a key role in the sorting and modification of proteins exported from the endoplasmic reticulum. This protein is a peripheral membrane protein of the Golgi stack and may have a regulatory role in Golgi trafficking.

**GOLPH3 Antibody (N-term) Blocking Peptide - References**

Ota T., Suzuki Y., Nishikawa T. Nat. Genet. 36:40-45(2004) Bell A.W., Ward M.A.J. Biol. Chem. 276:5152-5165(2001)