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GOLPH3 Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7445a

Specification

GOLPH3 Antibody (N-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q9H4A6
Other Accession	Q9ERE4, Q9CRA5
Reactivity	**Human**
Predicted	**Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**1-30**

GOLPH3 Antibody (N-term) - Additional Information

Gene ID 64083

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

Target/Specificity
This GOLPH3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human GOLPH3.

Dilution
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
GOLPH3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

GOLPH3 Antibody (N-term) - 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.

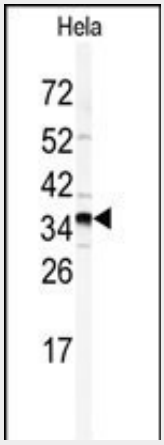
Tissue Location
Detected in muscle fibers of patients with mitochondrial diseases; not detected in normal muscle fibers

GOLPH3 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GOLPH3 Antibody (N-term) - Images



Western blot analysis of GOLPH3 antibody (N-term) (Cat.#AP7445a) in Hela cell line lysates (35ug/lane). GOLPH3 (arrow) was detected using the purified Pab.

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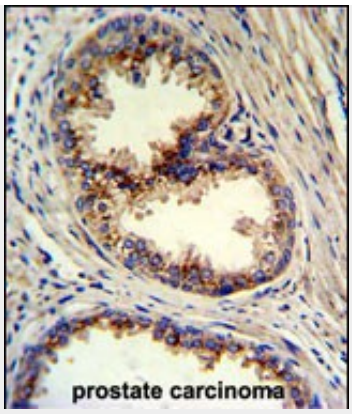
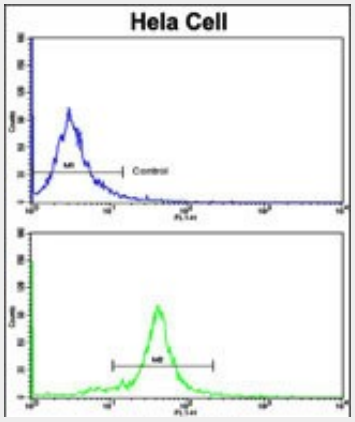


Formalin-fixed and paraffin-embedded human prostate carcinoma reacted with GOLPH3 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of hela cells using GOLPH3 Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

GOLPH3 Antibody (N-term) - 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) - 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)

GOLPH3 Antibody (N-term) - Citations

- GOLPH3 Mediated Golgi Stress Response in Modulating N2A Cell Death upon Oxygen-Glucose Deprivation and Reoxygenation Injury.
- Overexpression of Golgi phosphoprotein-3 (GOLPH3) in glioblastoma multiforme is associated with worse prognosis.