10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GOLPH3 Antibody (internal region)

Peptide-affinity purified goat antibody

Catalog # AF3087a

Specification

GOLPH3 Antibody (internal region) - Product Information

Application	**WB**
Primary Accession	Q9H4A6
Other Accession	NP_071413.1, 64083, 66629 (mouse)
Reactivity	**Human, Mouse**
Predicted	**Dog, Cow**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**33811**

GOLPH3 Antibody (internal region) - Additional Information

Gene ID 64083

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

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
GOLPH3 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

GOLPH3 Antibody (internal region) - 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.

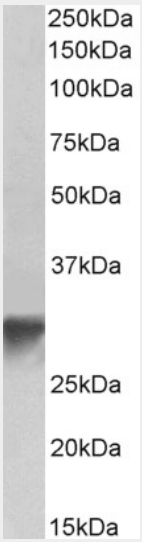
Tissue Location
Detected in muscle fibers of patients with mitochondrial diseases; not detected in normal muscle fibers

GOLPH3 Antibody (internal region) - 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 (internal region) - Images



AF3087a (0.3 µg/ml) staining of Human Platelets lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

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AF3087a (0.1 µg/ml) staining of Mouse brain lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

GOLPH3 Antibody (internal region) - References

GOLPH3 modulates mTOR signalling and rapamycin sensitivity in cancer. Scott KL, Kabbarah O, Liang MC, Ivanova E, Anagnostou V, Wu J, Dhakal S, Wu M, Chen S, Feinberg T, Huang J, Saci A, Widlund HR, Fisher DE, Xiao Y, Rimm DL, Protopopov A, Wong KK, Chin L, Nature 2009 Jun 459 (7250): 1085-90. PMID: 19553991