


Product datasheet

Anti-GOLPH3/MIDAS antibody ab98023

★★★★★ 2 Abreviews 4 References 3 Images

Overview

| | |
|----------------------------|---|
| Product name | Anti-GOLPH3/MIDAS antibody |
| Description | Rabbit polyclonal to GOLPH3/MIDAS |
| Host species | Rabbit |
| Tested applications | Suitable for: WB, ICC/IF |
| Species reactivity | Reacts with: Mouse, Rat, Human Predicted to work with: Cow, Zebrafish  |
| Immunogen | Synthetic peptide corresponding to Human GOLPH3/MIDAS aa 1-100 (N terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as ab108475) |
| Positive control | This antibody gave a positive signal in Human, Mouse and Rat Lung Tissue Lysates, and in HeLa and A549 Whole Cell Lysates. |
| General notes | This product was previously labelled as GOLPH3 |

Properties

| | |
|-----------------------------|--|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. |
| Storage buffer | Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4 |
| Purity | Immunogen affinity purified |
| Clonality | Polyclonal |
| Isotype | IgG |

Applications

Our [Abpromise guarantee](#) covers the use of **ab98023** in the following tested applications.

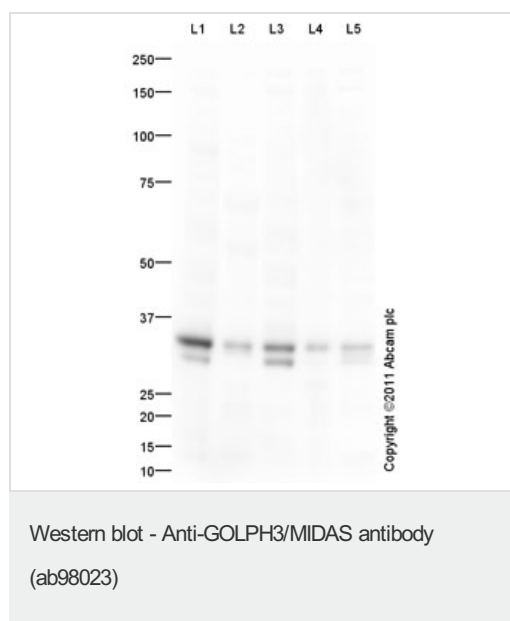
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|-------------|-----------|--|
| WB | ★★★★☆ | Use a concentration of 1 µg/ml. Detects a band of approximately 34 kDa (predicted molecular weight: 34 kDa). |
| ICC/IF | ★★★★★ | Use a concentration of 5 µg/ml. |

Target

| | |
|---|--|
| Function | Involved in modulation of mTOR signaling. Involved in the regulation of mitochondrial lipids, leading to increase of mitochondrial mass. Potential oncogene. |
| Tissue specificity | Detected in muscle fibers of patients with mitochondrial diseases; not detected in normal muscle fibers. |
| Sequence similarities | Belongs to the GOLPH3/MPS74 family. |
| Post-translational modifications | Phosphorylated. |
| Cellular localization | Cell membrane. Endosome. Cytoplasm. Golgi apparatus > Golgi stack membrane. Mitochondrion intermembrane space. |

Images



All lanes : Anti-GOLPH3/MIDAS antibody (ab98023) at 1 µg/ml

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lane 2 : Lung (Human) Tissue Lysate

Lane 3 : A549 (Human lung adenocarcinoma epithelial cell line) Whole Cell Lysate

Lane 4 : Mouse lung normal tissue lysate - total protein ([ab29297](#))

Lane 5 : Lung (Rat) Tissue Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

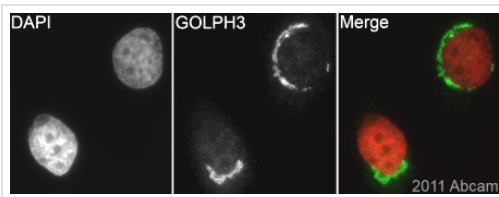
Predicted band size: 34 kDa

Observed band size: 34 kDa

Additional bands at: 32 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 30 seconds

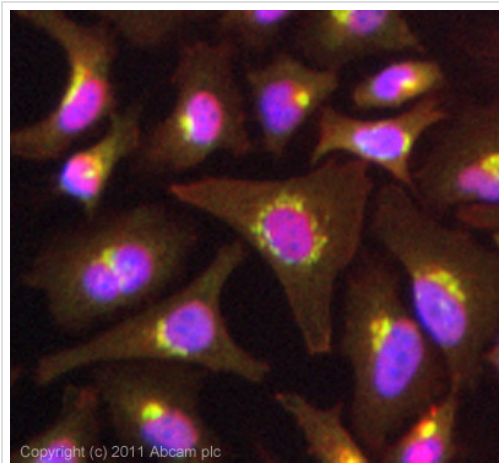
The predicted molecular weight of GOLPH3/MIDAS is 34-kDa. We are unsure why we are seeing an additional band in HeLa and A549 whole cell lysates. Abcam welcomes customer feedback and would appreciate any comments regarding this product and the data presented above.



Immunocytochemistry/ Immunofluorescence - Anti-GOLPH3/MIDAS antibody (ab98023)

This image is courtesy of an Abreview submitted by Dr. Kirk McManus, Univ. of Manitoba/Cancer Care MCB, Canada

ab98023 staining GOLPH3/MIDAS in HeLa cells by Immunocytochemistry/ Immunofluorescence. Cells were fixed with paraformaldehyde, permeabilized with 0.5% Triton X100. Samples were incubated with ab98023 (1/200: in PBS) for 1 hours at 22°C. An Alexa Fluor®488-conjugated goat polyclonal to rabbit IgG was used at dilution at 1/200 as secondary antibody. The nuclei are counterstained with DAPI.



Immunocytochemistry/ Immunofluorescence - Anti-GOLPH3/MIDAS antibody (ab98023)

ICC/IF image of ab98023 stained HeLa cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab98023, 5µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM. This antibody also gave a positive result in 4% PFA fixed (10 min) Hek293, HepG2 and MCF7 cells at 5µg/ml.

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