

## Product datasheet

# Anti-GOLPH3/MIDAS antibody ab91492

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### Overview

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<b>Product name</b>	Anti-GOLPH3/MIDAS antibody
<b>Description</b>	Rabbit polyclonal to GOLPH3/MIDAS
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Rat
<b>Immunogen</b>	Synthetic peptide corresponding to Human GOLPH3/MIDAS (N terminal). Database link: <a href="#">AAH12123</a>

### General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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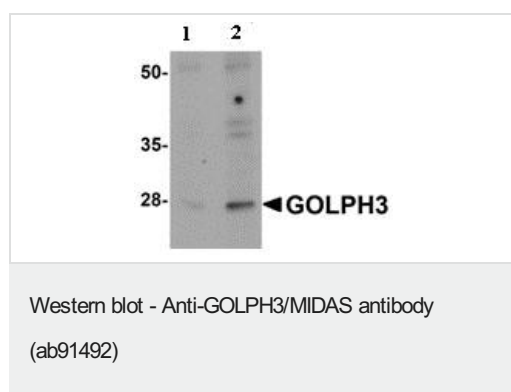
**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab91492 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC		Use at an assay dependent concentration.
WB		Use a concentration of 0.5 - 1 µg/ml. Predicted molecular weight: 34 kDa.

## Target

<b>Function</b>	Involved in modulation of mTOR signaling. Involved in the regulation of mitochondrial lipids, leading to increase of mitochondrial mass. Potential oncogene.
<b>Tissue specificity</b>	Detected in muscle fibers of patients with mitochondrial diseases; not detected in normal muscle fibers.
<b>Sequence similarities</b>	Belongs to the GOLPH3/VPS74 family.
<b>Post-translational modifications</b>	Phosphorylated.
<b>Cellular localization</b>	Cell membrane. Endosome. Cytoplasm. Golgi apparatus > Golgi stack membrane. Mitochondrion intermembrane space.

## Images



**Lane 1 :** Anti-GOLPH3/MIDAS antibody (ab91492) at 0.5 µg/ml

**Lane 2 :** Anti-GOLPH3/MIDAS antibody (ab91492) at 1 µg/ml

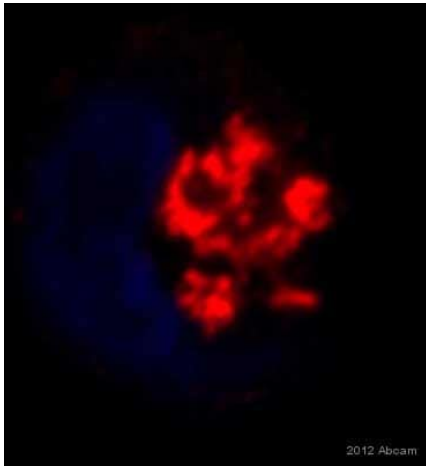
**All lanes :** rat lung tissue lysate

Lysates/proteins at 15 µg per lane.

**Predicted band size:** 34 kDa

**Observed band size:** 28 kDa

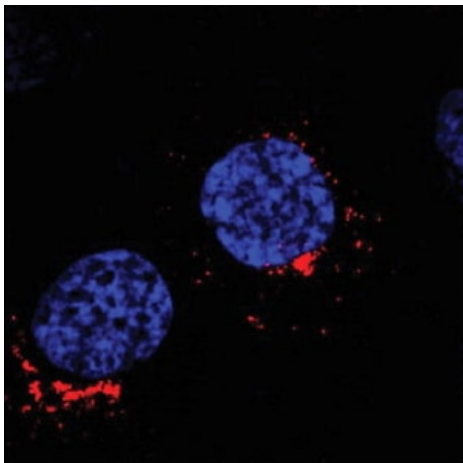
**Additional bands at:** 38 kDa, 42 kDa, 50 kDa. We are unsure as to the identity of these extra bands.



ab91492 staining GOLPH3/MIDAS in human K562 cells by Immunocytochemistry/ Immunofluorescence. Cells were fixed in formaldehyde, blocked with 2% serum for 1 hour at 22°C and then incubated with ab91492 at a 1/150 dilution for 1 hour at 22°C. The secondary used was a DyLight 594 conjugated donkey anti-rabbit polyclonal used at a 1/200 dilution. Blue is nucleus staining by DAPI, red is GOLPH3/MIDAS.

Immunocytochemistry - Anti-GOLPH3/MIDAS antibody (ab91492)

Image courtesy of Armen Petrosyan by Abreview.

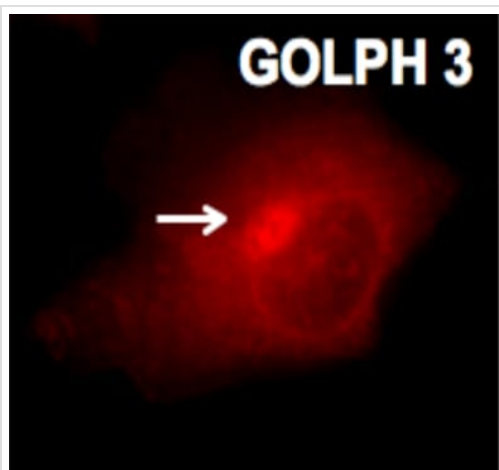


ab91492, staining GOLPH3/MIDAS (red) in HCV-infected Huh 7.5.1 cells, by Immunocytochemistry/ Immunofluorescence.

Cells were fixed in 3% paraformaldehyde, permeabilized and blocked in antibody-binding buffer for 2 hours at 4°C. Samples were incubated with primary antibody and a fluorescence-conjugated donkey anti-rabbit IgG was used as the secondary antibody. Nuclei were counterstained with DAPI (blue).

Immunocytochemistry - Anti-GOLPH3/MIDAS antibody (ab91492)

Image from Bishé B et al., J Biol Chem 287:27637-47 (2012) Fig 6.; doi: 10.1074/jbc.M112.346569; August 10, 2012, The Journal of Biological Chemistry, 287, 27637-27647.



Immunocytochemistry - Anti-GOLPH3/MIDAS antibody (ab91492)

Image from Sangwung P et al., PLoS One. 2012;7(2):e31564. Epub 2012 Feb 21. Fig 3.; doi:10.1371/journal.pone.0031564; February 21, 2012, PLoS ONE 7(2): e31564.

ab91492, staining GOLPH3/MIDAS in bovine aortic endothelial cells, by Immunocytochemistry/ Immunofluorescence.

Cells were fixed with 4% paraformaldehyde, permeabilized with 0.1% Triton X-100/PBS for 15 min at RT and blocked with 5% donkey serum/0.3% BSA/PBS for 30 min at RT. Samples were incubated with primary antibody at 1/100 dilution overnight at 4°C. An AlexaFlour®568-conjugated anti-rabbit IgG (1/500) was used as the secondary antibody.

Immunocytochemistry - Anti-GOLPH3/MIDAS antibody (ab91492)

Immunofluorescence of GOLPH3/MIDAS in Rat Lung cells using ab91492 at 20 ug/ml.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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