

Product datasheet

Anti-GOLPH3/MIDAS antibody ab91492

★★★★★ 1 Abreviews 7 References 5 Images

Overview

Product name	Anti-GOLPH3/MIDAS antibody
Description	Rabbit polyclonal to GOLPH3/MIDAS
Host species	Rabbit
Tested applications	Suitable for: ICC, WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to Human GOLPH3/MIDAS (N terminal). Database link: AAH12123
General notes	This product was previously labelled as GOLPH3

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as customer reviews and Q&As.

Properties

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

Applications

Our [Abpromise guarantee](#) covers the use of **ab91492** in the following tested applications.

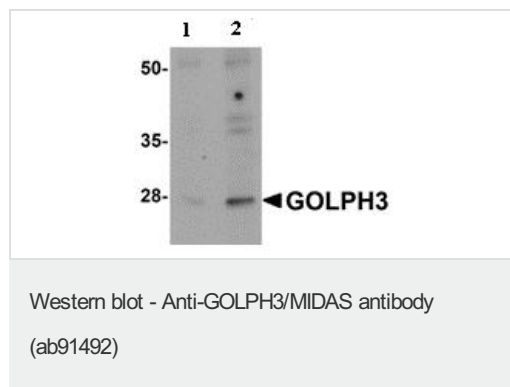
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

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/VPS74 family.
Post-translational modifications	Phosphorylated.
Cellular localization	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

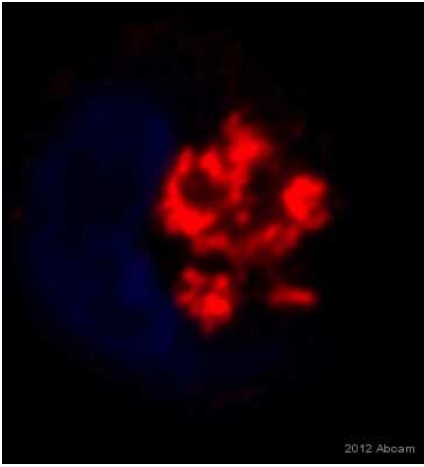
Lysates/proteins at 15 µg per lane.

Predicted band size: 34 kDa

Observed band size: 28 kDa

[why is the actual band size different from the predicted?](#)

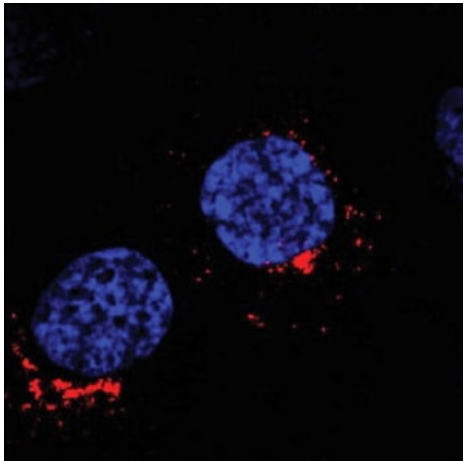
Additional bands at: 38 kDa, 42 kDa, 50 kDa. We are unsure as to the identity of these extra bands.



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.

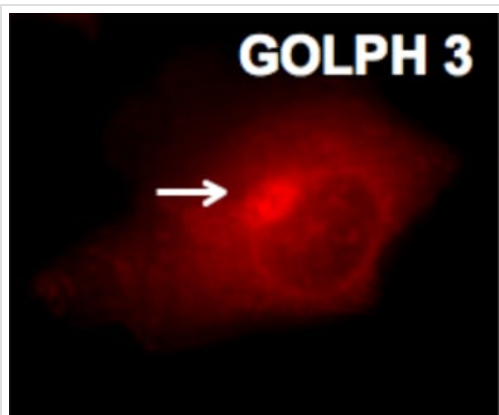


ab91492, staining GOLPH3/MIDAS (red) in HCV-infected Huh 7.5.1 cells, by Immunocytochemistry/ Immunofluorescence.

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.

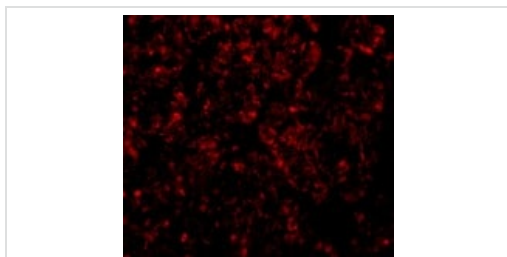


Immunocytochemistry - Anti-GOLPH3/MIDAS antibody (ab91492)

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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