

Product datasheet

Anti-MIRO2 antibody ab154946

2 References 2 Images

Overview

Product name	Anti-MIRO2 antibody
Description	Rabbit polyclonal to MIRO2
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide corresponding to Mouse MIRO2 aa 400-500 conjugated to keyhole limpet haemocyanin. Database link: Q8JZN7
Positive control	This antibody gave a positive signal in the following Mouse tissues; Heart; Skeletal Muscle; Kidney; Pancreas. This antibody gave a positive result when used in the following methanol fixed cell lines: Hek293.
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>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.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>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.</p> <p>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.</p> <p>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.</p>

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	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
	Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab154946** in the following tested applications.

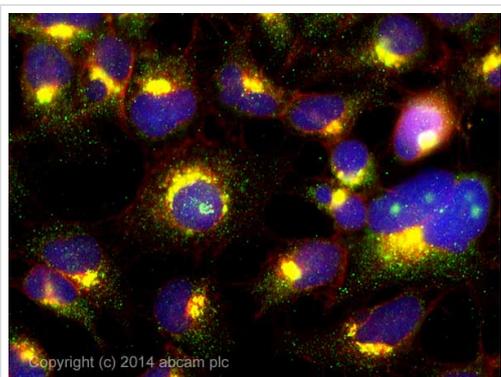
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 5 µg/ml.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 74 kDa (predicted molecular weight: 68 kDa).

Target

Function	Mitochondrial GTPase involved in mitochondrial trafficking. Probably involved in control of anterograde transport of mitochondria and their subcellular distribution.
Tissue specificity	Ubiquitously expressed. Highly expressed in heart, liver, skeletal muscle, kidney and pancreas.
Sequence similarities	Belongs to the mitochondrial Rho GTPase family. Contains 2 EF-hand domains. Contains 2 Miro domains.
Cellular localization	Mitochondrion outer membrane. Colocalizes with MGARP and RHOT2 at the mitochondria.

Images



Immunocytochemistry/ Immunofluorescence - Anti-MIRO2 antibody (ab154946)

ICC/IF image of ab154946 stained Hek293 cells. The cells were 100% methanol fixed (5 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 ab154946 at 5µg/ml overnight at +4°C. The secondary antibody (pseudo-colored green) was Alexa Fluor® 488 goat anti- rabbit (ab150081) IgG (H+L) preadsorbed, used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (pseudo-colored red) at a 1/200 dilution for 1h at room temperature. DAPI was used to stain the cell nuclei (pseudo-colored blue) at a concentration of 1.43µM for 1hour at room temperature.



Western blot - Anti-MIRO2 antibody (ab154946)

All lanes : Anti-MIRO2 antibody (ab154946) at 1 µg/ml (Milk blocking 3%)

Lane 1 : Heart (Mouse) Tissue Lysate

Lane 2 : Skeletal Muscle (Mouse) Tissue Lysate

Lane 3 : Kidney (Mouse) Tissue Lysate

Lane 4 : Pancreas (Mouse) Tissue Lysate

Lysates/proteins at 25 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/50000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 68 kDa

Observed band size: 74 kDa

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

Additional bands at: 36 kDa (possible non-specific binding)

Exposure time: 8 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab154946 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution [ab133406](#)

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