

Product datasheet

Anti-ORP1 antibody [EPR8646] ab131165

Recombinant RabMAb

[10 References](#) [8 Images](#)

Overview

Product name	Anti-ORP1 antibody [EPR8646]
Description	Rabbit monoclonal [EPR8646] to ORP1
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), ICC/IF, WB Unsuitable for: IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: A549, 293T, U87-MG cell lysates; Mouse brain and heart lysates; Rat brain lysates Flow Cyt (intra): A549 cells ICC/Flow Cyt (intra): A549 and U87-MG cells
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR8646

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab131165 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
Flow Cyt (Intra)		1/10 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/200.
WB		1/1000 - 1/10000. Detects a band of approximately 50-108 kDa (predicted molecular weight: 108 kDa).

Application notes

Is unsuitable for IP.

Target

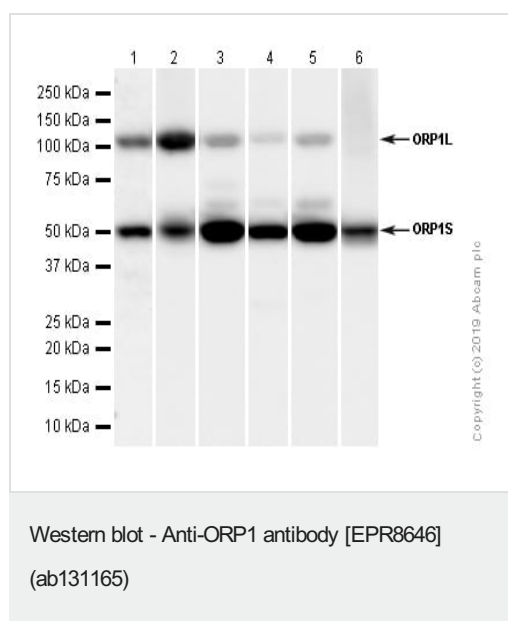
Function

Binds phospholipids; exhibits strong binding to phosphatidic acid and weak binding to phosphatidylinositol 3-phosphate.

Sequence similarities

Belongs to the OSBP family.
Contains 3 ANK repeats.
Contains 1 PH domain.

Images



All lanes : Anti-ORP1 antibody [EPR8646] (ab131165) at 1/10000 dilution (Purified)

Lane 1 : A549 (Human lung carcinoma epithelial cell) whole cell lysates

Lane 2 : U-87 MG (Human glioblastoma-astrocytoma epithelial cell) whole cell lysates

Lane 3 : Mouse brain lysates

Lane 4 : Mouse heart lysates

Lane 5 : Rat brain lysates

Lane 6 : Rat heart lysates

Lysates/proteins at 20 µg per lane.

Secondary

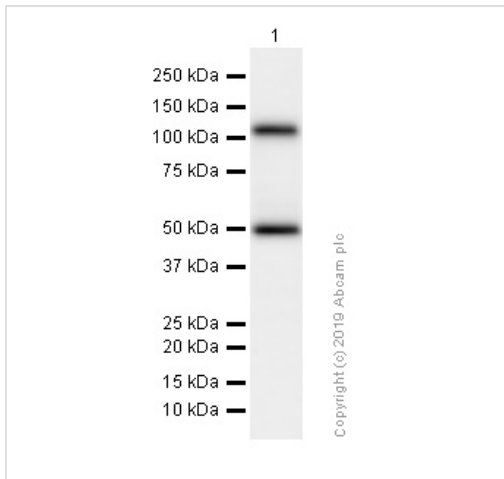
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000

dilution

Predicted band size: 108 kDa

Observed band size: 108,50 kDa

Two mRNA variants produce a 108 kDa long ORP1 (ORP1L) and a 50 kDa short ORP1 (ORP1S) separately, which is consistent with what has been described in PMID: 12631712.



Western blot - Anti-ORP1 antibody [EPR8646] (ab131165)

Anti-ORP1 antibody [EPR8646] (ab131165) at 1/1000 dilution + 293T (Human embryonic kidney epithelial cell) whole cell lysates at 15 μ g

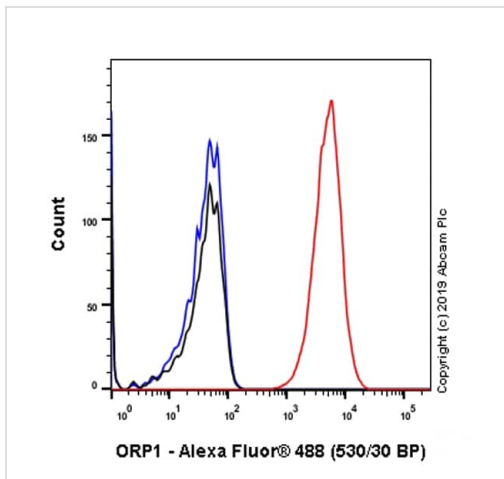
Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 108 kDa

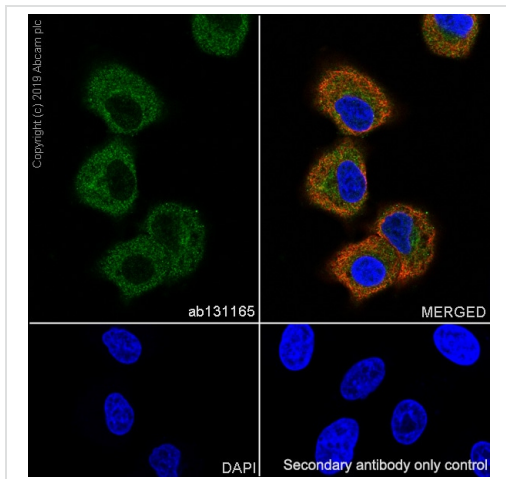
Observed band size: 108,50 kDa

Two mRNA variants produce a 108 kDa long ORP1 (ORP1L) and a 50 kDa short ORP1 (ORP1S) separately, which is consistent with what has been described in PMID: 12631712.



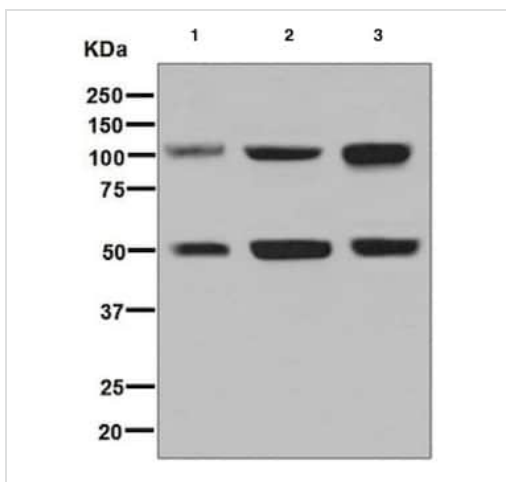
Flow Cytometry (Intracellular) - Anti-ORP1 antibody [EPR8646] (ab131165)

Intracellular Flow Cytometry analysis of A549 (Human lung carcinoma epithelial cell) cells labeling ORP1 with purified ab131165 at 1/60 dilution (10 μ g/ml) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor[®] 488, [ab150077](#)) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunocytochemistry/ Immunofluorescence - Anti-ORP1 antibody [EPR8646] (ab131165)

Immunocytochemistry/ Immunofluorescence analysis of A549 (Human lung carcinoma epithelial cell) cells labeling ORP1 with purified ab131165 at 1:200 dilution (2.8 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Western blot - Anti-ORP1 antibody [EPR8646] (ab131165)

All lanes : Anti-ORP1 antibody [EPR8646] (ab131165) at 1/1000 dilution (unpurified)

Lane 1 : A549 cell lysate

Lane 2 : 293T cell lysate

Lane 3 : U87-MG cell lysate

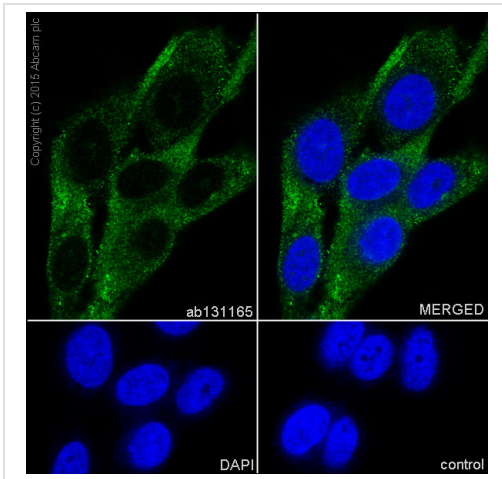
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit IgG at 1/2000 dilution

Predicted band size: 108 kDa

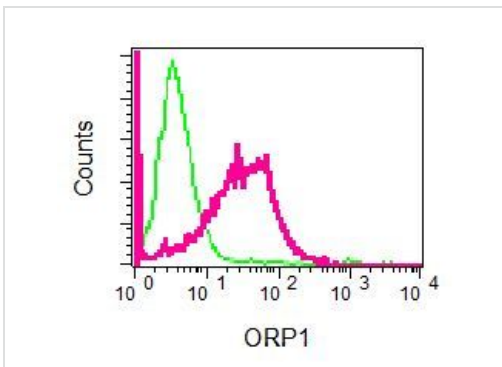
Observed band size: 50-108 kDa



Immunocytochemistry/ Immunofluorescence - Anti-ORP1 antibody [EPR8646] (ab131165)

ab131165 (unpurified) staining ORP1 in U87-MG (human glioblastoma) cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with 100% methanol. Samples were incubated with primary antibody at a dilution of 1/500. A goat anti rabbit IgG (Alexa Fluor® 488) (**ab150077**) was used as the secondary antibody at a dilution of 1/1000.



DAPI was used as a nuclear counterstain and the negative control was PBS only.



Flow Cytometry (Intracellular) - Anti-ORP1 antibody [EPR8646] (ab131165)

ab131165 (unpurified) at 1/10 dilution staining ORP1 in permeabilized A549 cells by intracellular flow cytometry (red). Rabbit IgG negative control (green).

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-ORP1 antibody [EPR8646] (ab131165)

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