abcam

ab180503

Anti-POR1 antibody [EPR11943]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR11943
Purification technique	Affinity purification Protein A
Concentration	0.694 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/30
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000 - 1/10000
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/1000
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/150
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

IHC-P

Tested

Species	Human
Dilution info	1/250 - 1/500
Notes	-

Target data

See full target information ARFIP2

Function	Plays a role in constitutive metalloproteinase (MMP) secretion from the trans Golgi network (PubMed:26507660). May have important functions during vesicle biogenesis at certain cargo subdomains, which could be predominantly utilized by

secreted MMPs, such as MMP7 and MMP2 (PubMed:26507660). Also involved in autophagy by regulating the starvation-dependent trafficking of ATG9A vesicles which deliver the phosphatidylinositol 4-kinase beta (PI4KB) to the autophagosome initiation site (PubMed:30917996, PubMed:31204568). Involved in phagophore growth during mitophagy by regulating ATG9A trafficking to mitochondria (PubMed:33773106). In addition, plays a role in NF-kappa-B inhibition by interacting with IKBKB and IKBKG (PubMed:26296658).

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

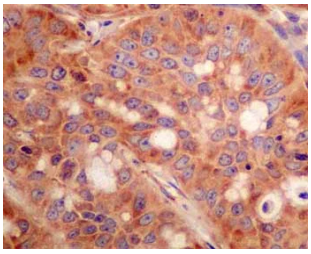
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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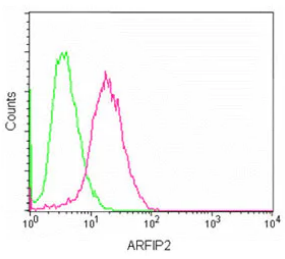
6 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-POR1 antibody [EPR11943] (ab180503)

POR1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-POR1 antibody

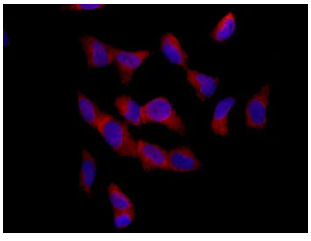
Immunohistochemical analysis of paraffin-embedded Human gastric carcinoma tissue labeling POR2 with ab180503 at 1/500 dilution followed by ImmunoHistoprobe (Ready to use) HRP Polymer for Rabbit IgG. Counter stained with Hematoxylin.
Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-POR1 antibody [EPR11943] (ab180503)

POR1 Flow Cytometry (Intracellular) staining using rabbit Anti-POR1 antibody

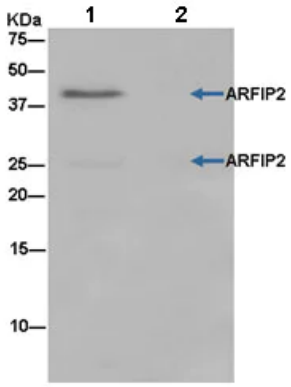
Intracellular flow cytometric analysis of2% paraformaldehyde-fixedSH-SY5Y cells labeling POR2 with ab180503 at 1/150 dilution (red), compared to a Rabbit monoclonal IgGIsotype control (green), followed by Goat anti rabbit IgG (FITC) secondary antibody at 1/75 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-POR1 antibody [EPR11943] (ab180503)

POR1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-POR1 antibody

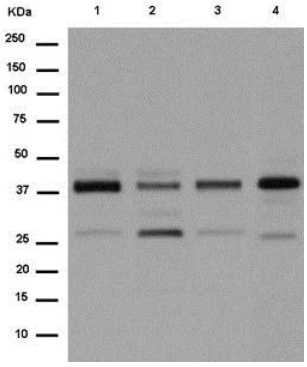
Immunofluorescent analysis of 4% paraformaldehyde-fixed SH-SY5Y cells labeling POR2 with ab180503 at 1/1000 dilution followed by Goat anti rabbit IgG (Dylight 555) secondary antibody at 1/250 dilution. Counter stained with DAPI.



Immunoprecipitation - Anti-POR1 antibody [EPR11943] (ab180503)

Western blot analysis of SH-SY5Y cell lysate (Lane 1) and Negative control (Lane 2) immunoprecipitated with ab180503 at 1/30 dilution. Rabbit TrueBlot®:Anti-Rabbit IgG HRP secondary antibody used at 1/1500 dilution.
All lanes:
Immunoprecipitation - Anti-POR1 antibody [EPR11943] (ab180503)

Predicted band size: 38 kDa



Western blot - Anti-POR1 antibody [EPR11943] (ab180503)

POR1 Western blot staining using rabbit Anti-POR1 antibody

All lanes:
Western blot - Anti-POR1 antibody [EPR11943] (ab180503) at 1/5000 dilution

Lane 1:
SH-SY5Y cell lysate at 20 µg

Lane 2:
MCF-7 cell lysate at 20 µg

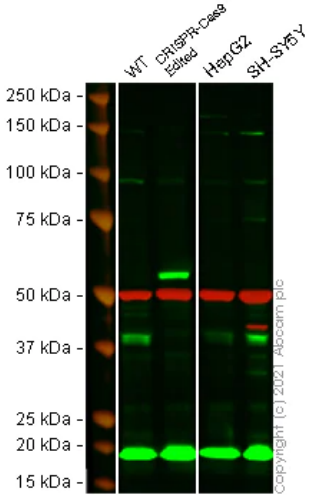
Lane 3:
HeLa cell lysate at 20 µg

Lane 4:
HepG2 cell lysate at 20 µg

Secondary

All lanes:
Goat anti-rabbit IgG, (H+L), peroxidase conjugated at 1/1000 dilution

Predicted band size: 38 kDa



Western blot - Anti-POR1 antibody [EPR11943] (ab180503)

POR1 Western blot staining using rabbit Anti-POR1 antibody

Lanes 1 - 4: Merged signal (red and green). Green - ab180503 observed at 38 kDa. Red - loading control, ab7291 (Mouse anti-Alpha Tubulin [DM1A]) observed at 55 kDa.
ab180503 was shown to react with POR1 in western blot. The band observed in the knockout lysate lane above 38 kDa is likely to represent an inserted form. This has not been investigated further. Membranes were blocked in fluorescent western blot (TBS-based) blocking solution before incubation with ab180503 and ab7291 (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4 °C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (ab216776) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.

All lanes:
Western blot - Anti-POR1 antibody [EPR11943] (ab180503) at 1/1000 dilution

Lane 1:
Wild-type HeLa cell lysate at 20 µg

Lane 2:
ARFIP2 CRISPR-Cas9 Edited HeLa cell lysate at 20 µg

Lane 3:
HepG2 cell lysate at 20 µg

Lane 4:
SH-SY5Y cell lysate at 20 µg

Performed under reducing conditions.

Predicted band size: 38 kDa

Observed band size: 38 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.