

Anti-PMP70 antibody [EPR5614] - BSA and Azide free ab247868


KO VALIDATED

Recombinant

RabMAb[®]

4 Images

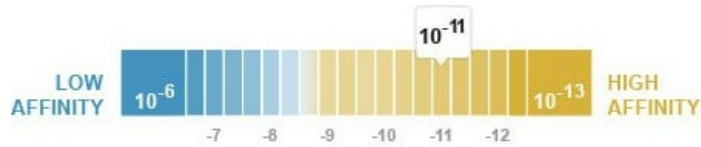
Overview

Product name	Anti-PMP70 antibody [EPR5614] - BSA and Azide free
Description	Rabbit monoclonal [EPR5614] to PMP70 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, Flow Cyt (Intra) Unsuitable for: IHC-P or IP
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, HAP1, A431 and HepG2 cell lysates.
General notes	<p>ab247868 is the carrier-free version of ab109448.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <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</p>

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Dissociation constant (K_D)	K _D = 4.10 x 10 ⁻¹¹ M



[Learn more about K_D](#)

Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5614
Isotype	IgG

Applications

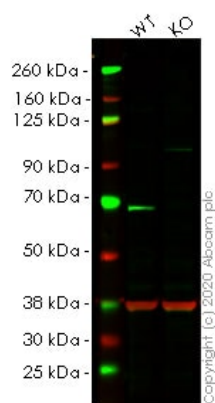
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab247868 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 70 kDa (predicted molecular weight: 75 kDa).
ICC/IF		Use at an assay dependent concentration.
Flow Cyt (Intra)		Use at an assay dependent concentration.

Application notes Is unsuitable for IHC-P or IP.

Target

Function	Probable transporter. The nucleotide-binding fold acts as an ATP-binding subunit with ATPase activity.
Sequence similarities	Belongs to the ABC transporter superfamily. ABCD family. Peroxisomal fatty acyl CoA transporter (TC 3.A.1.203) subfamily. Contains 1 ABC transmembrane type-1 domain. Contains 1 ABC transporter domain.
Cellular localization	Peroxisome membrane.



Western blot - Anti-PMP70 antibody [EPR5614] - BSA and Azide free (ab247868)

All lanes : Anti-PMP70 antibody [EPR5614] ([ab109448](#)) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : ABCD3 knockout HeLa cell lysate

Lysates/proteins at 40 µg per lane.

Performed under reducing conditions.

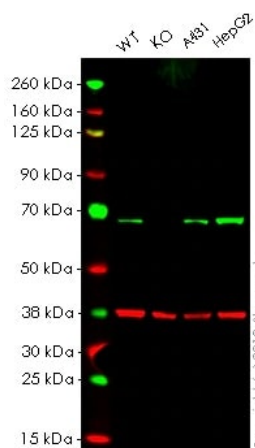
Predicted band size: 75 kDa

Observed band size: 75 kDa

This data was developed using the same antibody clone in a different buffer formulation ([ab109448](#)).

Lanes 1-2: Merged signal (red and green). Green - [ab109448](#) observed at 75 kDa. Red - Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) observed at 37 kDa.

[ab109448](#) was shown to react with PMP70 in wild-type HeLa cells in western blot. Loss of signal was observed when knockout cell line [ab265294](#) (knockout cell lysate [ab257134](#)) was used. Wild-type HeLa and PMP70 knockout HeLa cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. [ab109448](#) and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) overnight at 4°C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye®800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye®680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-PMP70 antibody [EPR5614] - BSA and Azide free (ab247868)

All lanes : Anti-PMP70 antibody [EPR5614] (**ab109448**) at 1/1000 dilution

Lane 1 : Wild-type HAP1 whole cell lysate

Lane 2 : ABCD3 (PMP70) knockout HAP1 whole cell lysate

Lane 3 : A431 whole cell lysate

Lane 4 : HepG2 whole cell lysate

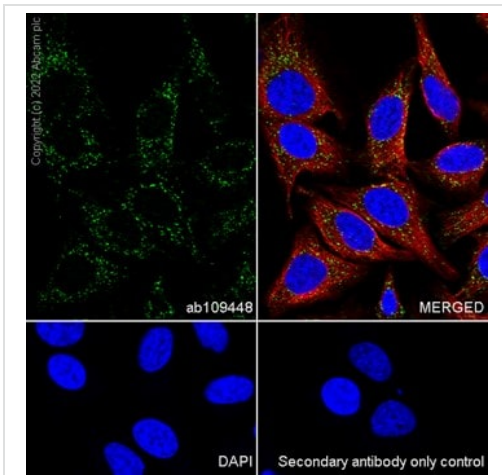
Lysates/proteins at 20 µg per lane.

Predicted band size: 75 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab109448**).

Lanes 1 - 4: Merged signal (red and green). Green - **ab109448** observed at 75 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

ab109448 was shown to specifically react with PMP70 in wild-type HAP1 cells as signal was lost in ABCD3 (PMP70) knockout cells. Wild-type and ABCD3 (PMP70) knockout samples were subjected to SDS-PAGE. Ab109448 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed 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 1/20000 dilution for 1 hour at room temperature before imaging.







Immunocytochemistry/ Immunofluorescence - Anti-PMP70 antibody [EPR5614] - BSA and Azide free (ab247868)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human cervix adenocarcinoma epithelial cell) cells labelling PMP70 with primary antibody anti-PMP70 (**ab109448**) at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 594) (**ab150081**) secondary antibody at 1/1000 dilution (2.0 µg/mL). Confocal image showing cytoplasmic staining on HeLa cells. Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor[®] 594) (**ab195889**) was used to counterstain tubulin at 1/200 dilution (2.5 µg/mL). The nuclear counter stain is DAPI (blue).

The secondary antibody only control is : Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 594) at 1/1000 dilution (2.0 µg/mL).

This data was developed using the same antibody clone in a different buffer formulation (**ab109448**).

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>

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

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