

Product datasheet

Anti-Niemann Pick C1 Like 1/NPC1L1 antibody [EPR5717] ab124801

Recombinant RabMAb

★★★★★ 1 Abreviews 5 References 4 Images

Overview

Product name	Anti-Niemann Pick C1 Like 1/NPC1L1 antibody [EPR5717]
Description	Rabbit monoclonal [EPR5717] to Niemann Pick C1 Like 1/NPC1L1
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: ICC/IF or IHC-P
Species reactivity	Reacts with: Human
Immunogen	corresponding to Human Niemann Pick C1 Like 1/NPC1L1 aa 1300 to the C-terminus.
Positive control	Human fetal liver and HeLa lysates; Human liver tissue.
General notes	

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

This product was previously labelled as Niemann Pick C1 Like 1

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 production

For more information [see here](#).

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

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

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
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5717
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab124801** 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	★★★★★	1/1000 - 1/10000. Detects a band of approximately 149 kDa (predicted molecular weight: 149 kDa).

Application notes Is unsuitable for ICC/IF or IHC-P.

Target

Function Play a major role in cholesterol homeostasis. Is critical for the uptake of cholesterol across the

plasma membrane of the intestinal enterocyte. Is the direct molecular target of ezetimibe, a drug that inhibits cholesterol absorption. Lack of activity leads to multiple lipid transport defects. The protein may have a function in the transport of multiple lipids and their homeostasis, and may play a critical role in regulating lipid metabolism.

Tissue specificity

Widely expressed. Expressed in liver. Also expressed in small intestine, pancreas, kidney, lung, pancreas, spleen, heart, gall bladder, brain, testis, stomach and muscle.

Sequence similarities

Belongs to the patched family.
Contains 1 SSD (sterol-sensing) domain.

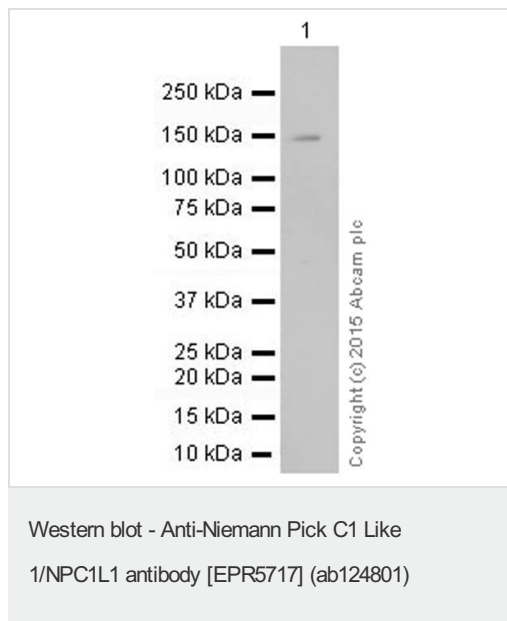
Post-translational modifications

Highly glycosylated.

Cellular localization

Apical cell membrane. Cell membrane. Cytoplasmic vesicle membrane. Subfractionation of brush border membranes from proximal enterocytes suggests considerable association with the apical membrane fraction. Exists as a predominantly cell surface membrane expressed protein (By similarity). According to PubMed:15671032, localizes in a subcellular vesicular compartment rich in RAB5.

Images



Anti-Niemann Pick C1 Like 1/NPC1L1 antibody [EPR5717] (ab124801) at 1/1000 dilution (purified) + HeLa whole cell lysate at 10 µg

Secondary

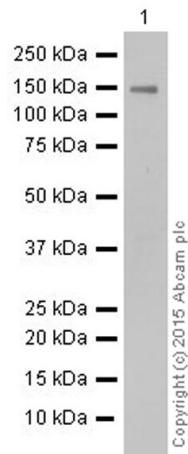
Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 149 kDa

Observed band size: 149 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Western blot - Anti-Niemann Pick C1 Like 1/NPC1L1 antibody [EPR5717] (ab124801)

Anti-Niemann Pick C1 Like 1/NPC1L1 antibody [EPR5717] (ab124801) at 1/10000 dilution (purified) + Human fetal liver lysate at 10 µg

Secondary

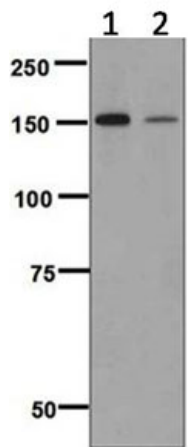
Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 149 kDa

Observed band size: 149 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Western blot - Anti-Niemann Pick C1 Like 1/NPC1L1 antibody [EPR5717] (ab124801)

All lanes : Anti-Niemann Pick C1 Like 1/NPC1L1 antibody [EPR5717] (ab124801) at 1/1000 dilution (unpurified)

Lane 1 : Human fetal liver lysates

Lane 2 : HeLa lysates

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-Rabbit HRP at 1/2000 dilution

Predicted band size: 149 kDa

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Niemann Pick C1 Like 1/NPC1L1 antibody [EPR5717] (ab124801)

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

Our Abpromise to you: Quality guaranteed and expert technical support

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- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
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- We investigate all quality concerns to ensure our products perform to the highest standards

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