

## Product datasheet

# Anti-Niemann Pick C1 Like 1/NPC1L1 antibody [EPR5717] - BSA and Azide free ab248011

Recombinant RabMAb

[4 Images](#)

### Overview

<b>Product name</b>	Anti-Niemann Pick C1 Like 1/NPC1L1 antibody [EPR5717] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR5717] to Niemann Pick C1 Like 1/NPC1L1 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB <b>Unsuitable for:</b> ICC/IF or IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide within Human Niemann Pick C1 Like 1/NPC1L1 aa 1300 to the C-terminus. The exact sequence is proprietary.
<b>General notes</b>	<p>ab248011 is the carrier-free version of <a href="#">ab124801</a> This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.</p> <p>Our <a href="#">carrier-free formats</a> are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.</p> <p>Use our <a href="#">conjugation kits</a> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>Ab248011 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.</p> <p><i>Maxpar® is a trademark of Fluidigm Canada Inc.</i></p> <p>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</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb® patents</a>.</p>

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

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR5717
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab248011** 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 149 kDa (predicted molecular weight: 149 kDa).

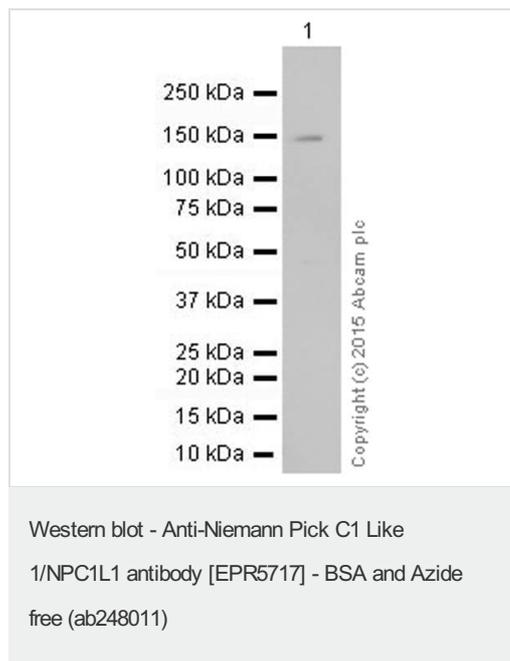
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**Application notes**                      Is unsuitable for ICC/IF or IHC-P.

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	Widely expressed. Expressed in liver. Also expressed in small intestine, pancreas, kidney, lung, pancreas, spleen, heart, gall bladder, brain, testis, stomach and muscle.
<b>Sequence similarities</b>	Belongs to the patched family. Contains 1 SSD (sterol-sensing) domain.
<b>Post-translational modifications</b>	Highly glycosylated.
<b>Cellular localization</b>	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**

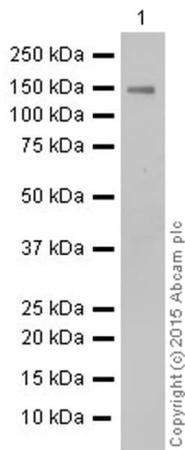
Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 149 kDa

**Observed band size:** 149 kDa

This data was developed using [ab124801](#), the same antibody clone in a different buffer formulation.

**Blocking and dilution buffer:** 5% NFD/MBST.



Western blot - Anti-Niemann Pick C1 Like  
1/NPC1L1 antibody [EPR5717] - BSA and Azide  
free (ab248011)

Anti-Niemann Pick C1 Like 1/NPC1L1 antibody [EPR5717]  
([ab124801](#)) at 1/10000 dilution (purified) + Human fetal liver tissue  
lysate at 10  $\mu$ g

#### Secondary

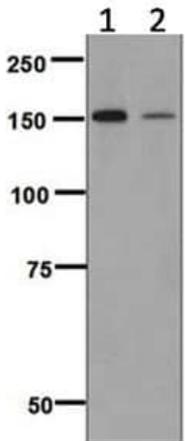
Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 149 kDa

**Observed band size:** 149 kDa

This data was developed using [ab124801](#), the same antibody clone  
in a different buffer formulation.

**Blocking and dilution buffer:** 5% NFDm/TBST.



Western blot - Anti-Niemann Pick C1 Like  
1/NPC1L1 antibody [EPR5717] - BSA and Azide  
free (ab248011)

**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  $\mu$ g per lane.

#### Secondary

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

**Predicted band size:** 149 kDa

This data was developed using [ab124801](#), the same antibody clone  
in a different buffer formulation.

## 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] - BSA and Azide free (ab248011)

**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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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
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If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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