

## Product datasheet

# Anti-VLDL Receptor/VLDL-R antibody [EPR26178-72] ab302917

Recombinant RabMAb

[7 Images](#)

### Overview

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<b>Product name</b>	Anti-VLDL Receptor/VLDL-R antibody [EPR26178-72]
<b>Description</b>	Rabbit monoclonal [EPR26178-72] to VLDL Receptor/VLDL-R
<b>Host species</b>	Rabbit
<b>Specificity</b>	This antibody does not cross-react with human LDLR.
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P <b>Unsuitable for:</b> Flow Cyt or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Human and mouse heart tissue lysate treated & untreated with Protein Deglycosylation Mix II; human, mouse and rat liver tissue lysate, human small intestine tissue lysate; 3T3-L1 treated & untreated with 1 µM Dexamethasone whole cell tissue lysate, THP-1, and Huh7 whole cell lysates; human VLDLR & His-tagged LDLR recombinant protein. IHC-P: Human cardiac muscle and pancreas tissue sections.
<b>General notes</b>	ab302917 is unsuitable for mouse and rat IHC  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 <a href="#">see here</a> .  Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	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.

<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR26178-72
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab302917 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

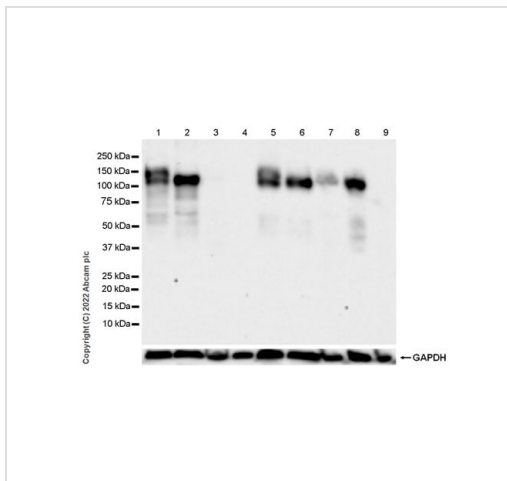
Application	Abreviews	Notes
<b>WB</b>		1/1000. Detects a band of approximately 100-150 kDa (predicted molecular weight: 96 kDa).
<b>IHC-P</b>		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

**Application notes** Is unsuitable for Flow Cyt or IP.

## Target

<b>Function</b>	Binds VLDL and transports it into cells by endocytosis. In order to be internalized, the receptor-ligand complexes must first cluster into clathrin-coated pits. Binding to Reelin induces tyrosine phosphorylation of Dab1 and modulation of Tau phosphorylation.
<b>Tissue specificity</b>	Abundant in heart and skeletal muscle; also ovary and kidney; not in liver.
<b>Involvement in disease</b>	Defects in VLDLR are the cause of cerebellar ataxia mental retardation and dysequilibrium syndrome type 1 (CMARQ1) [MIM:224050]; also known as dysequilibrium syndrome (DES) or non-progressive cerebellar disorder with mental retardation. CMARQ1 is a congenital, non-progressive cerebellar ataxia associated with disturbed equilibrium, delayed ambulation, mental retardation and cerebellar hypoplasia. Additional features include short stature, strabismus, pes planus and, rarely, seizures.
<b>Sequence similarities</b>	Contains 3 EGF-like domains. Contains 8 LDL-receptor class A domains. Contains 6 LDL-receptor class B repeats.
<b>Post-translational modifications</b>	Ubiquitinated at Lys-839 by MYLIP leading to degradation.
<b>Cellular localization</b>	Membrane. Membrane > clathrin-coated pit.

## Images



Western blot - Anti-VLDL Receptor/VLDL-R antibody [EPR26178-72] (AB302917)

**All lanes** : Anti-VLDL Receptor/VLDL-R antibody [EPR26178-72] (ab302917) at 1/1000 dilution

**Lane 1** : Untreated human heart tissue lysate at 30 µg

**Lane 2** : Human heart tissue lysate treated with Protein Deglycosylation Mix II at 30 µg

**Lane 3** : Human liver tissue lysate at 50 µg

**Lane 4** : Human small intestine tissue lysate at 50 µg

**Lane 5** : Untreated mouse heart tissue lysate at 30 µg

**Lane 6** : Mouse heart tissue lysate treated with Protein Deglycosylation Mix II at 30 µg

**Lane 7** : Mouse liver tissue lysate at 50 µg

**Lane 8** : Rat heart tissue lysate at 50 µg

**Lane 9** : Rat liver tissue lysate at 50 µg

### Secondary

**All lanes** : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/1000 dilution

**Predicted band size:** 96 kDa

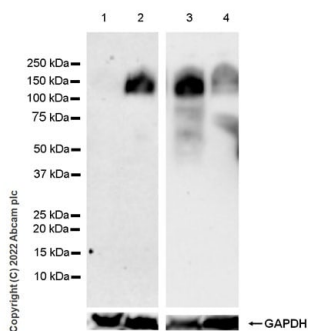
**Observed band size:** 100-150 kDa

**Exposure time:** 48 seconds

Blocking / Diluting buffer and concentration: 5% NFDM/TBST

VLDLR is a glycoprotein of approximately 150 kDa and detected as a 120 kDa band after treated with Protein Deglycosylation MIX II.

Low expression: liver, small intestine (PMID: 7925422; PMID: 11960750; PMID: 29289645)



Western blot - Anti-VLDL Receptor/VLDL-R antibody [EPR26178-72] (AB302917)

**All lanes** : Anti-VLDL Receptor/VLDL-R antibody [EPR26178-72] (ab302917) at 1/1000 dilution

**Lane 1** : Untreated 3T3-L1 (mouse embryonic fibroblast), whole cell lysate

**Lane 2** : 3T3-L1 treated with 1µM Dexamethasone for 48h, whole cell lysate

**Lane 3** : THP-1 (human monocytic leukemia monocyte), whole cell lysate

**Lane 4** : Huh7 (Human hepatocellular carcinoma epithelial cell), whole cell lysate

Lysates/proteins at 50 µg per lane.

### Secondary

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

**Predicted band size:** 96 kDa

**Observed band size:** 100-150 kDa

Blocking / Diluting buffer and concentration: 5% NFDM/TBST

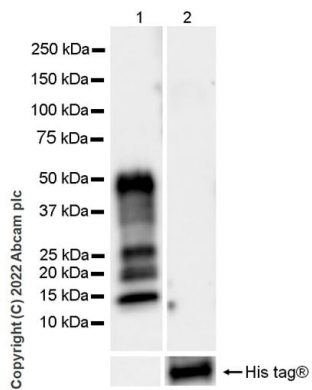
The expression of VLDLR is upregulated in response to Dexamethasone treatment (PMID: 11960750).

Low expression: Huh7 (PMID: 29289645)

Exposure time:

Lane 1 and 2: 180 seconds

Lane 3 and 4: 48 seconds



Western blot - Anti-VLDL Receptor/VLDL-R antibody [EPR26178-72] (AB302917)

**All lanes** : Anti-VLDL Receptor/VLDL-R antibody [EPR26178-72] (ab302917) at 1/1000 dilution

**Lane 1** : Human VLDLR recombinant protein 10 ng

**Lane 2** : His-tagged human LDLR recombinant protein 10 ng

**Secondary**

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

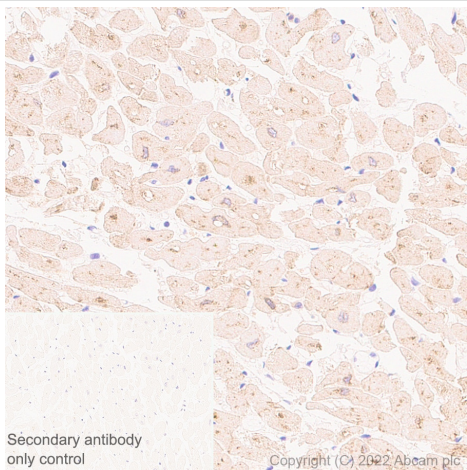
**Predicted band size:** 96 kDa

**Observed band size:** 15-50 kDa

**Exposure time:** 15 seconds

Blocking / Diluting buffer and concentration: 5% NFDm/TBST

This blot was developed using a high sensitivity ECL substrate.

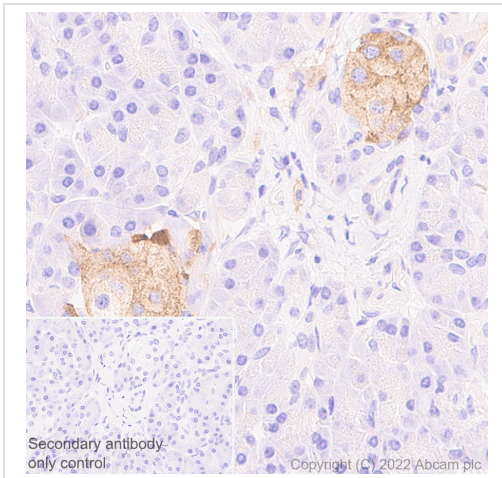


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VLDL Receptor/VLDL-R antibody [EPR26178-72] (AB302917)

Immunohistochemical analysis of paraffin-embedded human cardiac muscle tissue labeling VLDL Receptor/VLDL-R with ab302917 at 1/500 dilution (0.978 µg/ml) followed by a ready to use Leica DS9800 (BOND™ Polymer Refine Detection). Cytoplasmic staining on cardiac muscle. The section was incubated with ab302917 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Primary diluent was used instead of primary antibody, followed by a ready to use Leica DS9800 (BOND™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins was used.

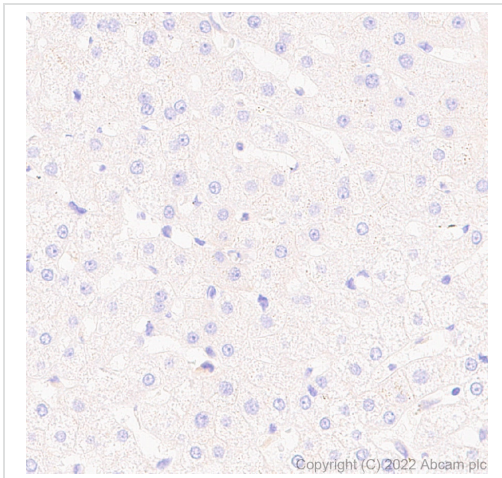


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VLDL Receptor/VLDL-R antibody [EPR26178-72] (AB302917)

Immunohistochemical analysis of paraffin-embedded human pancreas tissue labeling VLDL Receptor/VLDL-R with ab302917 at 1/500 dilution (0.978 µg/ml) followed by a ready to use Leica DS9800 (BOND™ Polymer Refine Detection). Cytoplasmic staining on islet of human pancreas. The section was incubated with ab302917 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Primary diluent was used instead of primary antibody, followed by a ready to use Leica DS9800 (BOND™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins was used.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VLDL Receptor/VLDL-R antibody [EPR26178-72] (AB302917)

Immunohistochemical analysis of paraffin-embedded human liver tissue labeling VLDL Receptor/VLDL-R with ab302917 at 1/500 dilution (0.978 µg/ml) followed by a ready to use Leica DS9800 (BOND™ Polymer Refine Detection). Negative control: No staining on human liver was observed. The section was incubated with ab302917 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Primary diluent was used instead of primary antibody, followed by a ready to use Leica DS9800 (BOND™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins was used.

### 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-VLDL Receptor/VLDL-R antibody [EPR26178-72] (AB302917)

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

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