

### Anti-ACADVL/VLCAD antibody [EPR15107(B)] ab188872

敲除验证
重组
RabMAb

★★★★★
1 Abreviews
8 图像

#### 概述

产品名称	Anti-ACADVL/VLCAD抗体[EPR15107(B)]
描述	兔单克隆抗体[EPR15107(B)] to ACADVL/VLCAD
宿主	Rabbit
经测试应用	适用于: Flow Cyt (Intra), IP, WB, IHC-P
种属反应性	与反应: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HeLa, HepG2, A431 and 293 cell lysates. IHC-P: Human kidney tissue and colon adenocarcinoma tissue. WB: HeLa cells.
常规说明	<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<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>.</p>

#### 性能

形式	Liquid
存放说明	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.
存储溶液	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR15107(B)
同种型	IgG

## 应用

### The Abpromise guarantee

**Abpromise™** 承诺保证使用ab188872于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		1/160. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IP		1/40.
WB		1/1000 - 1/10000. Detects a band of approximately 66 kDa (predicted molecular weight: 70 kDa).
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

## 靶标

### 功能

Active toward esters of long-chain and very long chain fatty acids such as palmitoyl-CoA, myristoyl-CoA and stearoyl-CoA. Can accommodate substrate acyl chain lengths as long as 24 carbons, but shows little activity for substrates of less than 12 carbons.

### 通路

Lipid metabolism; mitochondrial fatty acid beta-oxidation.

### 疾病相关

Defects in ACADVL are the cause of acyl-CoA dehydrogenase very long chain deficiency (ACADVL) [MIM:201475]. ACADVL is an autosomal recessive disease which leads to impaired long-chain fatty acid beta-oxidation. It is clinically heterogeneous, with three major phenotypes: a severe childhood form, with early onset, high mortality, and high incidence of cardiomyopathy; a milder childhood form, with later onset, usually with hypoketotic hypoglycemia as the main presenting feature, low mortality, and rare cardiomyopathy; and an adult form, with isolated skeletal muscle involvement, rhabdomyolysis, and myoglobinuria, usually triggered by exercise or fasting.

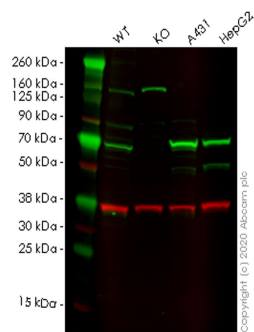
### 序列相似性

Belongs to the acyl-CoA dehydrogenase family.

### 细胞定位

Mitochondrion inner membrane.

## 图片



Western blot - Anti-ACADVL/VLCAD antibody [EPR15107(B)] (ab188872)

**All lanes :** Anti-ACADVL/VLCAD antibody [EPR15107(B)] (ab188872) at 1/1000 dilution

**Lane 1 :** Wild-type HEK293T cell lysate

**Lane 2 :** ACADVL knockout HEK293T cell lysate

**Lane 3 :** A431 cell lysate

**Lane 4 :** HepG2 cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

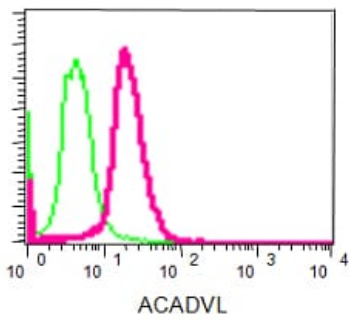
**All lanes :** Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) at 1/10000 dilution

**Predicted band size:** 70 kDa

**Observed band size:** 70 kDa

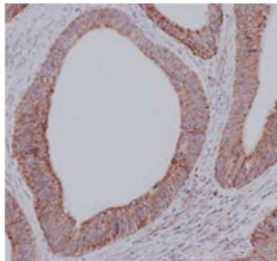
**Lanes 1-4:** Merged signal (red and green). Green - ab188872 observed at 70 kDa. Red - loading control [ab8245](#) observed at 36 kDa.

ab188872 Anti-ACADVL/VLCAD antibody [EPR15107(B)] was shown to specifically react with ACADVL/VLCAD in wild-type HEK293T cells. Loss of signal was observed when knockout cell line [ab266484](#) (knockout cell lysate [ab257332](#)) was used. Wild-type and ACADVL/VLCAD knockout samples were subjected to SDS-PAGE. ab188872 and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated overnight at 4°C at 1 in 1000 dilution and 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.



Flow Cytometry (Intracellular) - Anti-ACADVL/VLCAD antibody [EPR15107(B)] (ab188872)

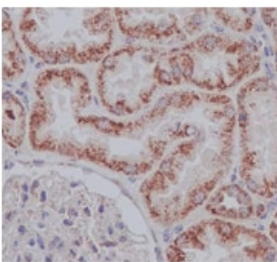
Intracellular flow cytometric analysis of HeLa cells (paraformaldehyde-fixed, 2%) labeling ACADVL/VLCAD with ab188872 at 1/160 dilution (red) or a rabbit IgG (negative) (green), followed by Goat anti rabbit IgG (FITC) secondary at 1/150 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ACADVL/VLCAD antibody [EPR15107(B)] (ab188872)

Immunohistochemical analysis of paraffin-embedded Human colon adenocarcinoma tissue labeling ACADVL/VLCAD with ab188872 at 1/500 dilution followed by pre-diluted HRP Polymer for Rabbit IgG secondary antibody and counter-stained with Hematoxylin.

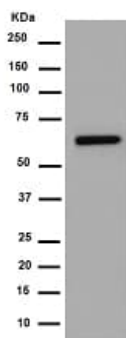
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ACADVL/VLCAD antibody [EPR15107(B)] (ab188872)

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling ACADVL/VLCAD with ab188872 at 1/500 dilution followed by pre-diluted HRP Polymer for Rabbit IgG secondary antibody and counter-stained with Hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



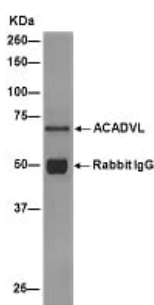
Western blot - Anti-ACADVL/VLCAD antibody [EPR15107(B)] (ab188872)

Anti-ACADVL/VLCAD antibody [EPR15107(B)] (ab188872) at 1/1000 dilution + 293 cell lysate at 20 µg

### Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

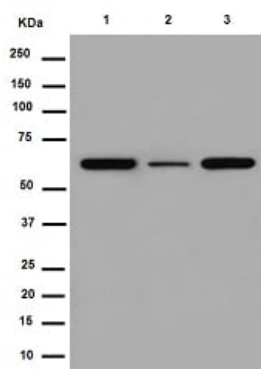
**Predicted band size:** 70 kDa



Immunoprecipitation - Anti-ACADVL/VLCAD antibody [EPR15107(B)] (ab188872)

Western blot analysis of immunoprecipitation pellet from A431 lysate immunoprecipitated using ab188872 at 1/50 dilution.

Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution.



Western blot - Anti-ACADVL/VLCAD antibody [EPR15107(B)] (ab188872)

**All lanes :** Anti-ACADVL/VLCAD antibody [EPR15107(B)] (ab188872) at 1/10000 dilution

**Lane 1 :** HeLa cell lysate

**Lane 2 :** HepG2 cell lysate

**Lane 3 :** A431 cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

**Predicted band size:** 70 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-ACADVL/VLCAD antibody [EPR15107(B)]  
(ab188872)

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

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