abcam

Product datasheet

# Anti-ACSL1 antibody [EPR13499] ab177958

KO VALIDATED Recombinant RabMAb

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## Overview

| | |
|---|---|
| **Product name** | Anti-ACSL1 antibody [EPR13499] |
| **Description** | Rabbit monoclonal [EPR13499] to ACSL1 |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** IHC-P, WB<br>**Unsuitable for:** Flow Cyt,ICC/IF or IP |
| **Species reactivity** | **Reacts with:** Human<br>**Predicted to work with:** Mouse, Rat |
| **Immunogen** | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| **Positive control** | HepG2, HeLa and Human fetal liver lysates; Human kidney and liver tissues. |
| **General notes** | This product is a recombinant monoclonal antibody, which offers several advantages including:<br>- High batch-to-batch consistency and reproducibility<br>- Improved sensitivity and specificity<br>- Long-term security of supply<br>- Animal-free production<br>For more information **see here**.<br>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. |

## Properties

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|---|---|
| **Form** | Liquid |
| **Storage instructions** | 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. |
| **Storage buffer** | pH: 7.20<br>Preservative: 0.01% Sodium azide<br>Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant |
| **Purity** | Tissue culture supernatant |
| **Clonality** | Monoclonal |

| | |
|---|---|
| **Clone number** | EPR13499 |
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab177958 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

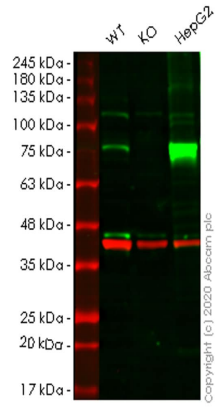
| Application | Abreviews | Notes |
|---|---|---|
| **IHC-P** | | 1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |
| **WB** | ★★★★☆ (1) | 1/1000 - 1/10000. Predicted molecular weight: 78 kDa. |

**Application notes** Is unsuitable for Flow Cyt,ICC/IF or IP.

## Target

| | |
|---|---|
| **Function** | Activation of long-chain fatty acids for both synthesis of cellular lipids, and degradation via beta-oxidation. Preferentially uses palmitoleate, oleate and linoleate. |
| **Tissue specificity** | Highly expressed in liver, heart, skeletal muscle, kidney and erythroid cells, and to a lesser extent in brain, lung, placenta and pancreas. |
| **Sequence similarities** | Belongs to the ATP-dependent AMP-binding enzyme family. |
| **Developmental stage** | Expressed during the early stages of erythroid development while expression is very low in reticulocytes and young erythrocytes. |
| **Cellular localization** | Mitochondrion outer membrane. Peroxisome membrane. Microsome membrane. Endoplasmic reticulum membrane. |

## Images




Western blot - Anti-ACSL1 antibody [EPR13499] (ab177958)

**All lanes :** Anti-ACSL1 antibody [EPR13499] (ab177958) at 1/1000 dilution

**Lane 1 :** Wild-type HeLa cell lysate
**Lane 2 :** ACSL1 knockout HeLa cell lysate
**Lane 3 :** HepG2 cell lysate

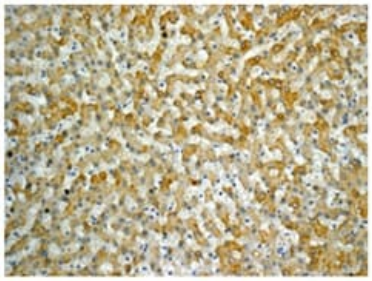
Lysates/proteins at 20 µg per lane.

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

**Predicted band size:** 78 kDa
**Observed band size:** 78 kDa

**Lanes 1-3:** Merged signal (red and green). Green - ab177958 observed at 78 kDa. Red - loading control **ab8245** observed at 36 kDa.

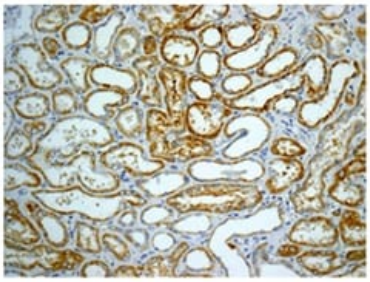
ab177958 Anti-ACSL1 antibody [EPR13499] was shown to specifically react with ACSL1 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265555** (knockout cell lysate **ab257335**) was used. Wild-type and ACSL1 knockout samples were subjected to SDS-PAGE. ab177958 and Anti-GAPDH 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ACSL1 antibody [EPR13499] (ab177958)

Immunohistochemical analysis of Human liver tissue labeling ACSL1 using ab177958 at 1/100 dilution.

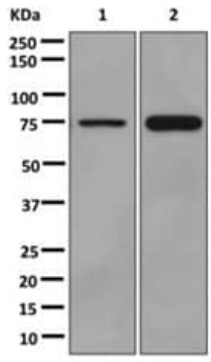
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ACSL1 antibody [EPR13499] (ab177958)

Immunohistochemical analysis of Human kidney tissue labeling ACSL1 using ab177958 at 1/100 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



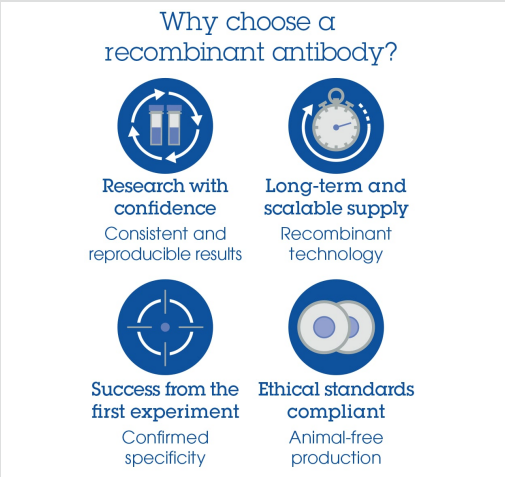

Western blot - Anti-ACSL1 antibody [EPR13499] (ab177958)

**All lanes :** Anti-ACSL1 antibody [EPR13499] (ab177958) at 1/1000 dilution

**Lane 1 :** HepG2 cell lysate
**Lane 2 :** Human fetal liver lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 78 kDa




Anti-ACSL1 antibody [EPR13499] (ab177958)

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

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