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# ACSL4 Rabbit mAb

**Catalog No.: A20414** Recombinant 19 Publications

## Basic Information

**Observed MW**
79kDa

**Calculated MW**
79kDa

**Category**
Primary antibody

**Applications**
ELISA,WB,IHC-P,IF/ICC,IP

**Cross-Reactivity**
Human, Mouse, Rat

**CloneNo number**
ARC53209

## Background

The protein encoded by this gene is an isozyme of the long-chain fatty-acid-coenzyme A ligase family. Although differing in substrate specificity, subcellular localization, and tissue distribution, all isozymes of this family convert free long-chain fatty acids into fatty acyl-CoA esters, and thereby play a key role in lipid biosynthesis and fatty acid degradation. This isozyme preferentially utilizes arachidonate as substrate. The absence of this enzyme may contribute to the cognitive disability or Alport syndrome. Alternative splicing of this gene generates multiple transcript variants.

## Recommended Dilutions

| | |
|---|---|
| **WB** | 1:2000 - 1:5000 |
| **IHC-P** | 1:50 - 1:200 |
| **IF/ICC** | 1:50 - 1:200 |
| **IP** | 0.5μg-4μg antibody for 200μg-400μg extracts of whole cells |

## Immunogen Information

**Gene ID**
2182

**Swiss Prot**
O60488

**Immunogen**
Recombinant fusion protein containing a sequence corresponding to amino acids 42-321 of human ACSL4 (NP_075266.1).

**Synonyms**
ACS4; FACL4; LACS4; MRX63; MRX68; XLID63; ACSL4

## Contact


400-999-6126

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## Product Information

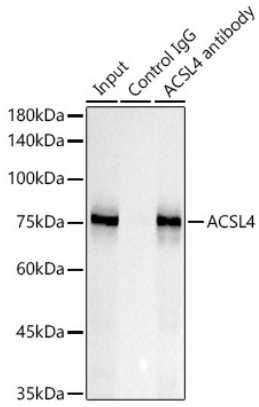
**Source**
Rabbit

**Isotype**
IgG

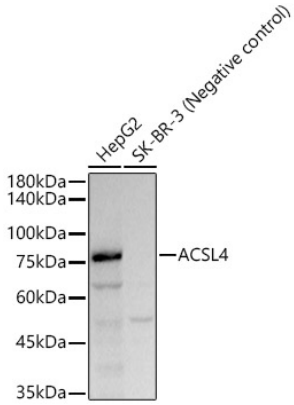
**Purification**
Affinity purification

**Storage**
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

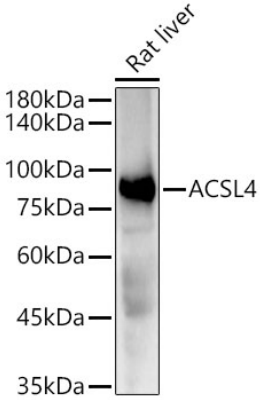
## Validation Data




Immunoprecipitation analysis of 300 µg extracts of HepG2 cells using 3 µg ACSL4 antibody (A20414). Western blot was performed from the immunoprecipitate using ACSL4 antibody (A20414) at a dilution of 1:1000.

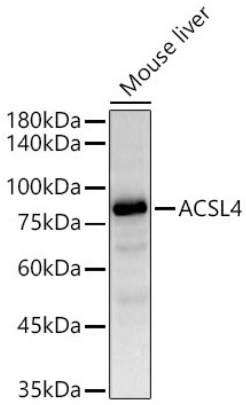



Western blot analysis of various lysates, using ACSL4 Rabbit mAb (A20414) at 1:4600 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 0.3s.

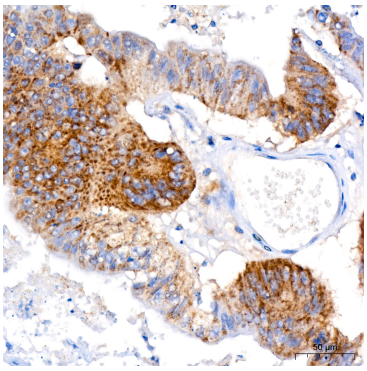



Western blot analysis of lysates from Rat liver, using ACSL4 Rabbit mAb (A20414) at 1:4600 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.

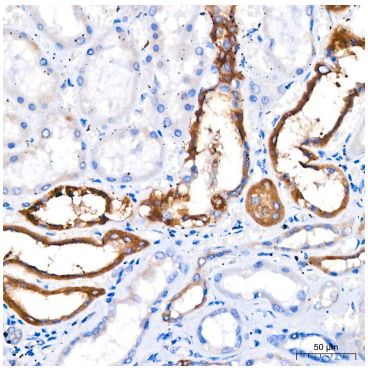
## Validation Data



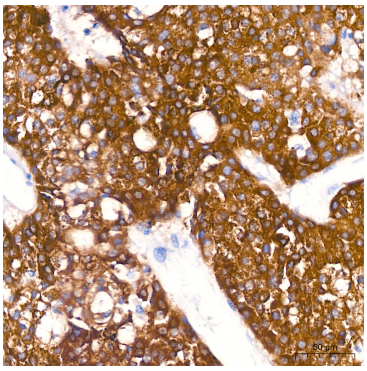

Western blot analysis of lysates from Mouse liver, using ACSL4 Rabbit mAb (A20414) at 1:4600 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



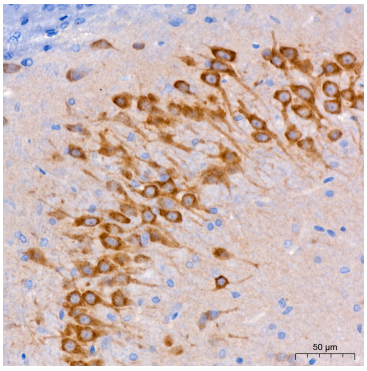
Immunohistochemistry analysis of paraffin-embedded human colon carcinoma using ACSL4 Rabbit mAb (A20414) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



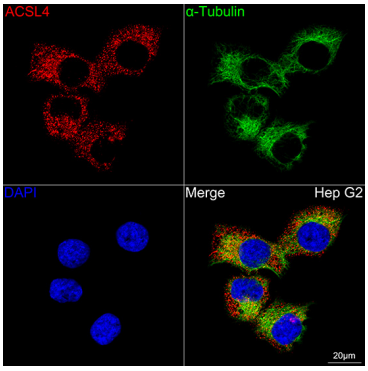
Immunohistochemistry analysis of paraffin-embedded human kidney using ACSL4 Rabbit mAb (A20414) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded human liver cancer using ACSL4 Rabbit mAb (A20414) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded rat brain using ACSL4 Rabbit mAb (A20414) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.




Confocal imaging of Hep G2 cells using ACSL4 Rabbit mAb (A20414, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.