

ACSL4 Rabbit mAb

Catalog No.: A20414 Recombinant 61 Publications

Basic Information

Observed MW

79kDa

Calculated MW

79kDa

Category

Primary antibody

Applications

WB,IF/ICC,IP,ELISA

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 1:10000 - 1:60000

IF/ICC 1:200 - 1:800

IP 0.5μg-4μg antibody for 200μg-400μg extracts of whole cells

ELISA Recommended starting concentration is 1 μg/mL.
Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

2182

Swiss Prot

O60488

Immunogen

Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms

AC54; FACL4; LACS4; MRX63; MRX68; XLID63; ACSL4

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

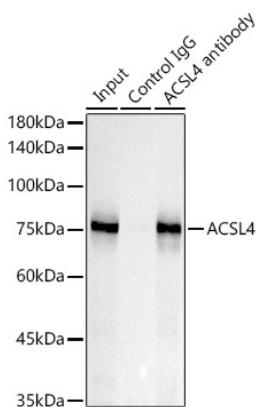
Affinity purification

Storage

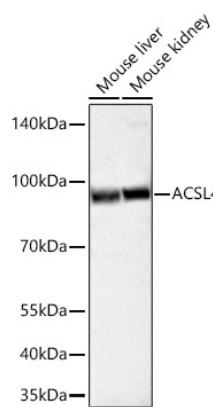
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% sodium azide,0.05% BSA,50% glycerol,pH7.3.

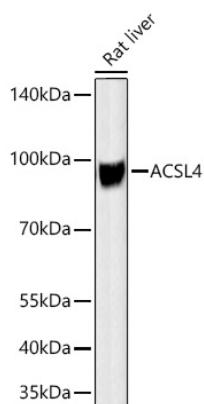
Validation Data



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

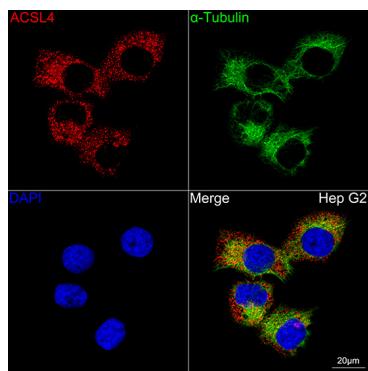
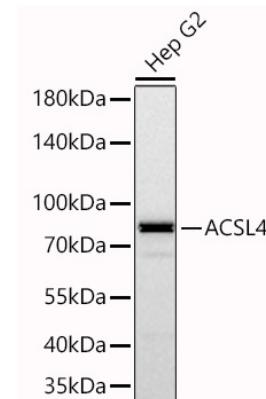


Western blot analysis of various lysates using ACSL4 Rabbit mAb (A20414) at 1:58000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45s.



Western blot analysis of lysates from Rat liver using ACSL4 Rabbit mAb (A20414) at 1:58000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20s.

Validation Data



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.