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ACSL4 / FACL4 Antibody (C-Terminus)

Goat Polyclonal Antibody
Catalog # ALS13415

Specification

ACSL4 / FACL4 Antibody (C-Terminus) - Product Information

Application	**WB, IHC**
Primary Accession	O60488
Reactivity	**Human, Mouse, Rat, Rabbit, Hamster, Monkey, Pig, Horse, Bovine, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**79kDa KDa**

ACSL4 / FACL4 Antibody (C-Terminus) - Additional Information

Gene ID 2182

Other Names
Long-chain-fatty-acid--CoA ligase 4, 6.2.1.3, Long-chain acyl-CoA synthetase 4, LACS 4, ACSL4, ACS4, FACL4, LACS4

Target/Specificity
Human ACSL4 / FACL4. This antibody is expected to recognise isoform 1 (NP_004449.1) and isoform 2 (NP_075266.1).

Reconstitution & Storage
Store at -20°C. Minimize freezing and thawing.

Precautions
ACSL4 / FACL4 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

ACSL4 / FACL4 Antibody (C-Terminus) - Protein Information

Name ACSL4

Synonyms ACS4, FACL4, LACS4

Function
Catalyzes the conversion of long-chain fatty acids to their active form acyl-CoA for both synthesis of cellular lipids, and degradation via beta-oxidation (PubMed:24269233, PubMed:22633490, PubMed:21242590). Preferentially activates arachidonate and eicosapentaenoate as substrates (PubMed:21242590). Preferentially activates 8,9-EET > 14,15-EET > 5,6-EET > 11,12-EET. Modulates glucose- stimulated insulin

secretion by regulating the levels of unesterified EETs (By similarity). Modulates prostaglandin E2 secretion (PubMed:21242590).

Cellular Location
Mitochondrion outer membrane; Single-pass type III membrane protein. Peroxisome membrane; Single-pass type III membrane protein. Microsome membrane; Single-pass type III membrane protein. Endoplasmic reticulum membrane; Single-pass type III membrane protein. Cell membrane

ACSL4 / FACL4 Antibody (C-Terminus) - Protocols

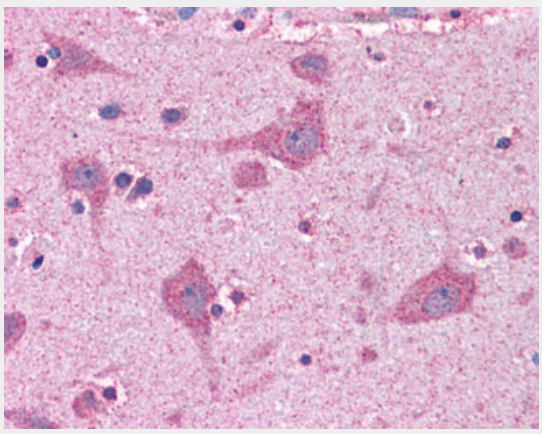
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ACSL4 / FACL4 Antibody (C-Terminus) - Images



ACSL4 antibody (0.1 ug/ml) staining of HepG2 lysate (35 ug protein/ml in RIPA buffer).



Anti-ACSL4 antibody IHC of human brain, cortex.

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ACSL4 / FACL4 Antibody (C-Terminus) - Background

Activation of long-chain fatty acids for both synthesis of cellular lipids, and degradation via beta-oxidation. Preferentially uses arachidonate and eicosapentaenoate as substrates.

ACSL4 / FACL4 Antibody (C-Terminus) - References

Cao Y.,et al.Genomics 49:327-330(1998).
Piccini M.,et al.Genomics 47:350-358(1998).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Dephoure N.,et al.Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767(2008).