

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:21242590, PubMed:22633490, PubMed:24269233). 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 / FAACL4 Antibody (C-Terminus) - Protocols

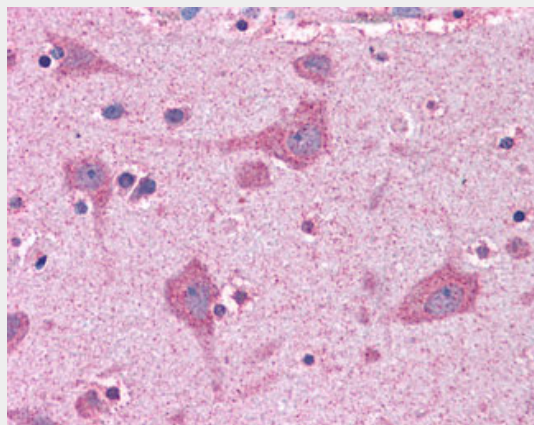
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ACSL4 / FAACL4 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.

ACSL4 / FAACL4 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 / FAACL4 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).