

FACL2 / ACSL1 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS15672

Specification

FACL2 / ACSL1 Antibody (Internal) - Product Information

Application	IF
Primary Accession	P33121
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	78kDa KDa

FACL2 / ACSL1 Antibody (Internal) - Additional Information

Gene ID 2180

Other Names

Long-chain-fatty-acid--CoA ligase 1, 6.2.1.3, Acyl-CoA synthetase 1, ACS1, Long-chain acyl-CoA synthetase 1, LACS 1, Long-chain acyl-CoA synthetase 2, LACS 2, Long-chain fatty acid-CoA ligase 2, Palmitoyl-CoA ligase 1, Palmitoyl-CoA ligase 2, ACSL1, FACL1, FACL2, LACS, LACS1, LACS2

Target/Specificity

Human ACSL1. At least three isoforms of ACSL1 are known to exist; this antibody will detect all three isoforms.

Reconstitution & Storage

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions

FACL2 / ACSL1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

FACL2 / ACSL1 Antibody (Internal) - Protein Information

Name ACSL1 ([HGNC:3569](#))

Function

Catalyzes the conversion of long-chain fatty acids to their active form acyl-CoAs for both synthesis of cellular lipids, and degradation via beta-oxidation (PubMed: [21242590](http://www.uniprot.org/citations/21242590), PubMed: [22633490](http://www.uniprot.org/citations/22633490), PubMed: [24269233](http://www.uniprot.org/citations/24269233)). Preferentially uses palmitoleate, oleate and linoleate (PubMed: [24269233](http://www.uniprot.org/citations/24269233)). Preferentially activates arachidonate than epoxyeicosatrienoic acids (EETs) or hydroxyeicosatrienoic acids (HETEs) (By similarity).

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

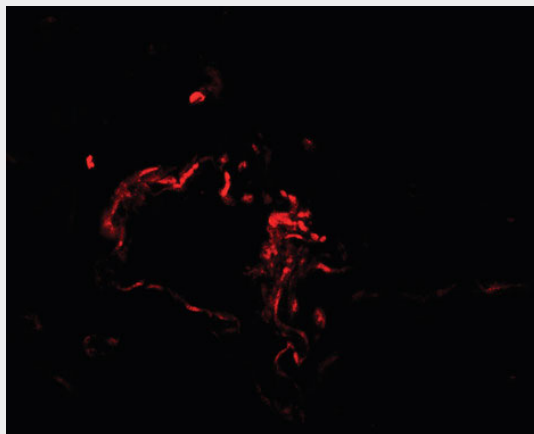
Tissue Location

Highly expressed in liver, heart, skeletal muscle, kidney and erythroid cells, and to a lesser extent in brain, lung, placenta and pancreas.

FACL2 / ACSL1 Antibody (Internal) - 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](#)

FACL2 / ACSL1 Antibody (Internal) - Images

Immunofluorescence of ACSL1 in human lung tissue with ACSL1 antibody at 20 ug/ml.

FACL2 / ACSL1 Antibody (Internal) - Background

Activation of long-chain fatty acids for both synthesis of cellular lipids, and degradation via beta-oxidation. Preferentially uses palmitoleate, oleate and linoleate.

FACL2 / ACSL1 Antibody (Internal) - References

- Abe T.,et al.J. Biochem. 111:123-128(1992).
Ghosh B.,et al.Mol. Cell. Biochem. 151:77-81(1995).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Hillier L.W.,et al.Nature 434:724-731(2005).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.