10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ACSL3 (FACL3) Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2535A

Specification

ACSL3 (FACL3) Antibody (N-term) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	O95573
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**80420**
Antigen Region	**1-30**

ACSL3 (FACL3) Antibody (N-term) - Additional Information

Gene ID 2181

Other Names
Long-chain-fatty-acid--CoA ligase 3, Long-chain acyl-CoA synthetase 3, LACS 3, ACSL3, ACS3, FACL3, LACS3

Target/Specificity
This ACSL3 (FACL3) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human ACSL3 (FACL3).

Dilution
IHC-P~~1:50~100
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
ACSL3 (FACL3) Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ACSL3 (FACL3) Antibody (N-term) - Protein Information

Name ACSL3 (HGNC:3570)

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Synonyms ACS3, FACL3, LACS3

Function Acyl-CoA synthetases (ACSL) activates long-chain fatty acids for both synthesis of cellular lipids, and degradation via beta- oxidation (PubMed:22633490). Required for the incorporation of fatty acids into phosphatidylcholine, the major phospholipid located on the surface of VLDL (very low density lipoproteins) (PubMed:18003621). Has mainly an anabolic role in energy metabolism. Mediates hepatic lipogenesis. Preferentially uses myristate, laurate, arachidonate and eicosapentaenoate as substrates. Both isoforms exhibit the same level of activity (By similarity).

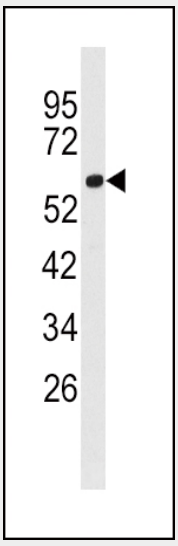
Cellular Location
Mitochondrion outer membrane; Single-pass type III membrane protein. Peroxisome membrane; Single-pass type III membrane protein. Microsome membrane; Single-pass type III membrane protein. Endoplasmic reticulum membrane; Single-pass type III membrane protein

ACSL3 (FACL3) Antibody (N-term) - 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

ACSL3 (FACL3) Antibody (N-term) - Images



Western blot analysis of anti-FACL3 Antibody (N-term) (Cat.#AP2535a) in 293 cell line lysates (35ug/lane). FACL3 (arrow) was detected using the purified Pab.

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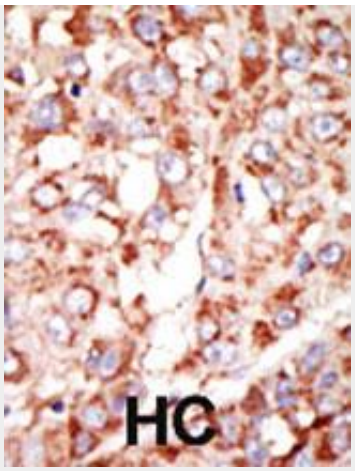

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

ACSL3 (FACL3) Antibody (N-term) - Background

An initial reaction in fatty acid metabolism in eukaryotic cells is activation of fatty acids catalyzed by acyl-CoA synthetase. FACL3 (fatty acid CoA ligase, long-chain 3) is identified as member of the acyl-CoA synthetase (ACS) family by PCR of rat brain cDNAs using primers based on the conserved region of the ACS protein. The 720-amino acid rat protein preferentially utilizes myristate, laurate, arachidonate, and eicosapentaenoate, and is expressed primarily in brain. The predicted 720-amino acid FACL3 human protein is 92% identical to that of rat.

ACSL3 (FACL3) Antibody (N-term) - References

Genomics 42:180-181(1997).
Gene 278:185-192(2001).