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ACSL3 (FACL3) Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP2535a

Specification

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

Primary Accession	O95573
Other Accession	ACSL3_HUMAN

ACSL3 (FACL3) Antibody (N-term) Blocking peptide - 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 synthetic peptide sequence is selected from the N-term of the first 50 aa of human FACL3.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

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

Name ACSL3 (HGNC:3570)

Synonyms ACS3, FACL3, LACS3

Function
Acyl-CoA synthetases (ACSL) activates

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

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

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) Blocking peptide - Protocols

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

- Blocking Peptides