ACSL3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ACSL3, Polyclonal Antibody
Full Product Name	ACSL3 Polyclonal Antibody
Product Gene Name	anti-ACSL3 antibody
Product Synonym Names	Long-chain-fatty-acid--CoA ligase 3; EC 6.2.1.3; Long-chain acyl-CoA synthetase 3; LACS 3; ACSL3; ACS3; FACL3; LACS3
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Preparation and Storage	Store at-20 degree C for 1 year.
Molecular Weight	79
OMIM	602371
3D Structure	ModBase 3D Structure for O95573
Immunogen	Synthesized peptide derived from human protein. at AA range: 40-120
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ACSL3 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-ACSL3 antibody	WB: 1:500-2000 ELISA: 1:5000-20000
Related Product Information for anti-ACSL3 antibody	MBS8530162 is an antibody targeting ACSL3. Also known as ACSL3 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-ACSL3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACSL3. It may not necessarily be applicable to this product.

NCBI GI #	42794752
NCBI GeneID	2181
NCBI Accession #	NP_004448.2
UniProt Primary Accession #	O95573
UniProt Secondary Accession #	Q60I92; Q8IUM9
UniProt Related Accession #	O95573

GenBank Nucleotide #	NM_004457.4
NCBI Official Full Name	long-chain-fatty-acid--CoA ligase 3
NCBI Official Synonym Full Names	acyl-CoA synthetase long chain family member 3
NCBI Official Symbol	ACSL3
NCBI Official Synonym Symbols	ACS3; FACL3; LACS3; LACS 3; PRO2194
UniProt Protein Name	Long-chain-fatty-acid--CoA ligase 3
UniProt Synonym Protein Names	Long-chain acyl-CoA synthetase 3; LACS 3
Protein Family	Long-chain-fatty-acid--CoA ligase
UniProt Gene Name	ACSL3
UniProt Synonym Gene Names	ACS3; FACL3; LACS3; LACS 3
NCBI Protein Information	long-chain-fatty-acid--CoA ligase 3
NCBI Summary for ACSL3	The protein encoded by this gene is an isozyme of the long-chain fatty-acid-coenzyme A ligase family. Although differing in substrate specificity, subcellular localization, and tissue distribution, all isozymes of this family convert free long-chain fatty acids into fatty acyl-CoA esters, and thereby play a key role in lipid biosynthesis and fatty acid degradation. This isozyme is highly expressed in brain, and preferentially utilizes myristate, arachidonate, and eicosapentaenoate as substrates. The amino acid sequence of this isozyme is 92% identical to that of rat homolog. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for ACSL3	Acyl-CoA synthetases (ACSL) activates long-chain fatty acids for both synthesis of cellular lipids, and degradation via beta-oxidation. ACSL3 mediates hepatic lipogenesis (). Preferentially uses myristate, laurate, arachidonate and eicosapentaenoate as substrates (). Has mainly an anabolic role in energy metabolism. Required for the incorporation of fatty acids into phosphatidylcholine, the major phospholipid located on the surface of VLDL (very low density lipoproteins).
Research Articles on ACSL3	**1.** ACSL3 is essential for mutant KRAS lung cancer tumorigenesis in vivo and is highly expressed in human lung cancer
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