ACSL1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ACSL1, Polyclonal Antibody
Full Product Name	ACSL1 Rabbit Polyclonal Antibody
Product Gene Name	anti-ACSL1 antibody
Product Synonym Gene Name	FACL1, FACL2, LACS, LACS1, LACS2
Product Synonym Names	BH6842; Long-chain-fatty-acid--CoA ligase 1 (EC 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)
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Rat, Mouse
Form/Format	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1mg/ml (lot specific)
Specificity	ACSL1 Polyclonal Antibody detects endogenous levels of protein.
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	698
OMIM	152425
3D Structure	ModBase 3D Structure for P33121
Immunogen	Synthesized peptide derived from human protein. at AA range: 210-290
Modification	Unmodified/Total
Applications Tested/Suitable for anti-ACSL1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-ACSL1 antibody	WB: 1:500-2000 ELISA: 1:5000-20000
Related Product Information for anti-ACSL1 antibody	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. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2013]
Other Notes	Small volumes of anti-ACSL1 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.
Searchable Terms for ACSL1 purchase	MBS9513263 is an antibody targeting ACSL1. Also known as ACSL1 Rabbit Polyclonal Antibody. Reactive in Human, Rat, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACSL1. It may not necessarily be applicable to this product.

NCBI GI #	417241
NCBI GeneID	2180
NCBI Accession #	P33121.1
UniProt Primary Accession #	P33121
UniProt Secondary Accession #	P41215; Q8N8V7; Q8TA99; B7Z452; D3DP57
UniProt Related Accession #	P33121
NCBI Official Full Name	Long-chain-fatty-acid--CoA ligase 1
NCBI Official Synonym Full Names	acyl-CoA synthetase long-chain family member 1
NCBI Official Symbol	ACSL1
NCBI Official Synonym Symbols	ACS1; LACS; FACL1; FACL2; LACS1; LACS2
UniProt Protein Name	Long-chain-fatty-acid--CoA ligase 1
UniProt Synonym Protein Names	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
Protein Family	Long-chain-fatty-acid--CoA ligase
UniProt Gene Name	ACSL1
UniProt Synonym Gene Names	FACL1; FACL2; LACS; LACS1; LACS2; ACS1; LACS 1; LACS 2
UniProt Entry Name	ACSL1_HUMAN
NCBI Protein Information	long-chain-fatty-acid--CoA ligase 1; LACS 1; LACS 2; acyl-CoA synthetase 1; palmitoyl-CoA ligase 1; palmitoyl-CoA ligase 2; paltimoyl-CoA ligase 1; lignoceroyl-CoA synthase; long-chain acyl-CoA synthetase 1; long-chain acyl-CoA synthetase 2; long-chain fa
UniProt Comments for ACSL1	ACSL1: Activation of long-chain fatty acids for both synthesis of cellular lipids, and degradation via beta-oxidation. Preferentially uses palmitoleate, oleate and linoleate. Highly expressed in liver, heart, skeletal muscle, kidney and erythroid cells, and to a lesser extent in brain, lung, placenta and pancreas. Belongs to the ATP-dependent AMP-binding enzyme family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Lipid Metabolism - fatty acid; Ligase; Membrane protein, integral; EC 6.2.1.3 Chromosomal Location of Human Ortholog: 4q35.1 Cellular Component: peroxisomal membrane; mitochondrial outer membrane; endoplasmic reticulum membrane; mitochondrion; membrane; plasma membrane; integral to membrane Molecular Function: ATP binding; long-chain-fatty-acid-CoA ligase activity Biological Process: response to drug; response to oleate; unsaturated fatty acid metabolic process; lipid biosynthetic process; linoleic acid metabolic process; adiponectin-mediated signaling pathway; triacylglycerol biosynthetic process; cellular lipid metabolic process; long-chain fatty acid metabolic process; response to organic cyclic substance; response to nutrient; xenobiotic catabolic process
Research Articles on ACSL1	**1.** the cell surface protein CD36/FAT directly facilitates fatty acid transport across the plasma membrane, whereas the intracellular acyl-CoA synthetases FATP4 and ACSL1 enhance fatty acid uptake indirectly by metabolic trapping
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