

Datasheet for 600-401-X65**ACSL1 Antibody****Overview**

Description:	Anti-ACSL1 (RABBIT) Antibody - 600-401-X65
Item No.:	600-401-X65
Size:	100 µg
Applications:	ELISA, IF, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Long-chain acyl coenzyme A synthetase 1 (ACSL1) catalyzes the synthesis of acyl-CoA from long-chain fatty acids in an ATP-dependent manner. ACSL1 is a member of a family of long-chain acyl-CoA synthetases which differ in substrate preference, tissue expression, and subcellular localization. In mouse, ASCL1 is the major acyl-CoA enzyme in the heart, providing 60-90% of heart ATP. Loss of ASCL1 either globally or in heart ventricles resulted in impaired fatty acid oxidation, activation of the mammalian target of rapamycin (mTOR), and cardiac hypertrophy.
Synonyms:	ACSL1 Antibody, ACS1, LACS, FACL1, FACL2, LACS1, LACS2, Long-chain-fatty-acid--CoA ligase 1, Acyl-CoA synthetase 1, ACS1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ACSL1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti- ACSL1 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid peptide near the internal region of human ACSL1.

Purity/Specificity:	Anti-ACSL1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. At least three isoforms of ACSL1 are known to exist; this antibody will detect all three isoforms.
Relevant Links:	• UniProtKB - P33121 • GeneID - 2180 • NCBI - NP_001986

Application Details

Tested Applications:	ELISA, IF, WB
Application Note:	Anti-ASCL1 Antibody has been tested for use in ELISA, Immunofluorescence and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at ~77 kDa in size corresponding to ASCL1 protein by Western Blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IF:	20 µg/mL
WB:	1-2 µg/mL

Formulation

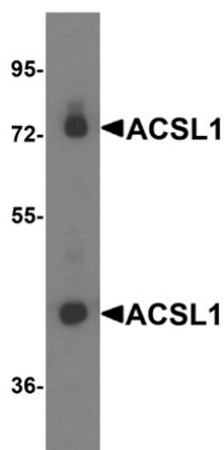
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images

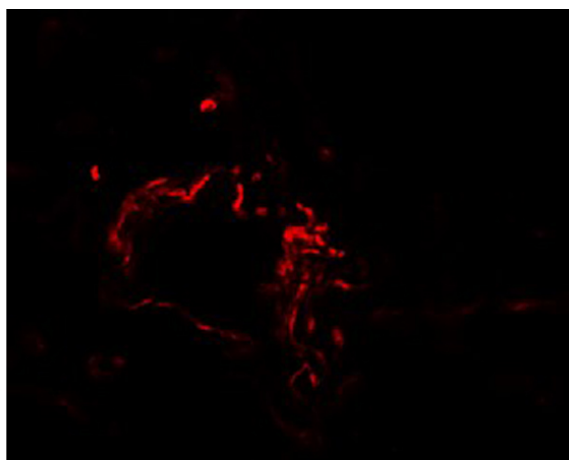


Western Blot

Western blot analysis of ACSL1.

Load: human liver tissue lysate.

Primary Antibody: ACSL1 antibody at 0.25 µg/ml.



Immunofluorescence Microscopy

Immunofluorescence of ACSL1.

Tissue: human lung tissue.

Primary Antibody: ACSL1 antibody at 20 µg/mL.

Disclaimer

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