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Datasheet for ABIN6991772
anti-ACSL1 antibody (AA 240-290)

Overview

Quantity:	0.1 mg
Target:	ACSL1 (Acs1)
Binding Specificity:	AA 240-290
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ACSL1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	Rabbit polyclonal ACSL1 antibody was raised against an 18 amino acid peptide near the center of human ACSL1. The immunogen is located within amino acids 240 - 290 of ACSL1.
Isotype:	IgG
Specificity:	At least three isoforms of ACSL1 are known to exist, this antibody will detect all three isoforms.
Purification:	ACSL1 Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	ACSL1 (Acs1)
Alternative Name:	ACSL1 (Acs1 Products)
Background:	ACSL1 Antibody: Long-chain acyl coenzyme A synthetase 1 (ACSL1) catalyzes the synthesis of

Target Details

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, ACSL1 is the major acyl-CoA enzyme in the heart, providing 60-90 % of heart ATP. Loss of ACSL1 either globally or in heart ventricles resulted in impaired fatty acid oxidation, activation of the mammalian target of rapamycin (mTOR), and cardiac hypertrophy.

Molecular Weight: Predicted: 41, 58, 77 kDa

Observed: 45, 47 kDa

Gene ID: 2180

NCBI Accession: [NP_001986](#)

UniProt: [P33121](#)

Pathways: [Regulation of Lipid Metabolism by PPARalpha](#)

Application Details

Application Notes: ACSL1 antibody can be used for detection of ACSL1 by Western blot at 0.25 µg/mL. For immunofluorescence start at 20 µg/mL.

Antibody validated: Western Blot in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: ACSL1 Antibody is supplied in PBS containing 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C, 4 °C

Storage Comment: ACSL1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As

with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.