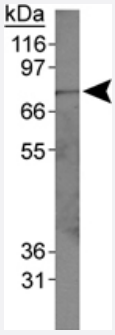
ACSL1 polyclonal antibody

Catalog # PAB12497 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of ACSL1 in HepG2 whole cell lysates using ACSL1 polyclonal antibody (Cat # PAB12497).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ACSL1.
Immunogen	A synthetic peptide corresponding to amino acids 1-100 of human ACSL1.
Host	Rabbit
Reactivity	Human, Mouse, Primates, Rat
Form	Liquid
Recommend Usage	Western Blot (1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (30% glycerol, 0.09% sodium azide)
Storage Instruction	Store at 4°C for short term. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western blot analysis of ACSL1 in HepG2 whole cell lysates using ACSL1 polyclonal antibody (Cat # PAB12497).

Gene Info — ACSL1

Entrez GeneID	2180
Protein Accession#	P33121
Gene Name	ACSL1
Gene Alias	ACS1, FACL1, FACL2, LACS, LACS1, LACS2
Gene Description	acyl-CoA synthetase long-chain family member 1
Omim ID	152425
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is an isozyme of the long-chain fatty-acid-coenzyme A ligase fa mily. Although differing in substrate specificity, subcellular localization, and tissue distribution, all i sozymes of this family convert free long-chain fatty acids into fatty acyl-CoA esters, and thereby pl ay a key role in lipid biosynthesis and fatty acid degradation. [provided by RefSeq
Other Designations	fatty-acid-Coenzyme A ligase, long-chain 1|fatty-acid-Coenzyme A ligase, long-chain 2|lignoceroyl -CoA synthase|long-chain acyl-CoA synthetase 1|long-chain acyl-CoA synthetase 2|long-chain fatt y-acid-coenzyme A ligase 1|palmitoyl-CoA ligase 2|paltimoyl-CoA

Publication Reference

- Overexpression of acyl-CoA synthetase-1 increases lipid deposition in hepatic (HepG2) cells and rodent liver in vivo.

  Parkes HA, Preston E, Wilks D, Ballesteros M, Carpenter L, Wood L, Kraegen EW, Furler SM, Cooney GJ.

  American Journal of Physiology. Endocrinology and Metabolism 2006 Oct; 291(4):E737.

  Application: WB-Ti, Mouse, Mouse liver

- Fatty acid transport protein 1 and long-chain acyl coenzyme A synthetase 1 interact in adipocytes.

  Richards MR, Harp JD, Ory DS, Schaffer JE.

  Journal of Lipid Research 2006 Mar; 47(3):665.

  Application: WB, Mouse, 3T3-L1 cells

Pathway

- Adipocytokine signaling pathway
- Fatty acid metabolism
- Metabolic pathways
- PPAR signaling pathway

Disease

- Genetic Predisposition to Disease
- Insulin Resistance
- Metabolic Syndrome X