

SLC27A2 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1828a**Specification****SLC27A2 Antibody - Product Information**

Application	E, WB, IHC
Primary Accession	O14975
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	70.3kDa KDa

Description

The protein encoded by this gene is an isozyme of 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 activates long-chain, branched-chain and very-long-chain fatty acids containing 22 or more carbons to their CoA derivatives. It is expressed primarily in liver and kidney, and is present in both endoplasmic reticulum and peroxisomes, but not in mitochondria. Its decreased peroxisomal enzyme activity is in part responsible for the biochemical pathology in X-linked adrenoleukodystrophy. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Immunogen

Purified recombinant fragment of human SLC27A2 (AA: 346-405) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

SLC27A2 Antibody - Additional Information

Gene ID 11001

Other Names

Very long-chain acyl-CoA synthetase, VLACS, VLCS, 6.2.1.-, Fatty acid transport protein 2, FATP-2, Fatty-acid-coenzyme A ligase, very long-chain 1, Long-chain-fatty-acid--CoA ligase, 6.2.1.3, Solute carrier family 27 member 2, THCA-CoA ligase, Very long-chain-fatty-acid-CoA ligase, SLC27A2, ACSVL1, FACVL1, FATP2, VLACS

Dilution

E~~1/10000
WB~~1/500 - 1/2000
IHC~~1/200 - 1/1000

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SLC27A2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

SLC27A2 Antibody - Protein Information

Name SLC27A2

Synonyms ACSVL1, FACVL1, FATP2, VLACS

Function

Acyl CoA synthetase that activates long-chain and very long- chain fatty acids (VLCFAs) by catalyzing the formation of fatty acyl- CoA (PubMed:10198260, PubMed:10749848, PubMed:11980911). Can also activate branched-chain fatty acids such as phytanic acid and pristanic acid (PubMed:10198260). Does not activate C24 bile acids, cholate and chenodeoxycholate (PubMed:11980911). In vitro, activates 3-alpha,7- alpha,12-alpha-trihydroxy-5-beta-cholestanate (THCA), the C27 precursor of cholic acid deriving from the de novo synthesis from cholesterol (PubMed:11980911). Exhibits long-chain fatty acids (LCFA) transport activity and plays an important role in hepatic fatty acid uptake (PubMed:20530735).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Peroxisome membrane; Peripheral membrane protein. Cell membrane {ECO:0000250|UniProtKB:O35488}; Multi-pass membrane protein. Microsome

Tissue Location

Expressed in liver, kidney, placenta and pancreas.

SLC27A2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)