

Summary

Production Name	ACSVL6 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IF,IHC,WB,
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	SLC27A5
Alternative Names	SLC27A5; ACSB; ACSVL6; FACVL3; FATP5; Bile acyl-CoA synthetase; BACS; Bile acid-CoA ligase; BA-CoA ligase; BAL; Cholate--CoA ligase; Fatty acid transport protein 5; FATP-5; Fatty-acid-coenzyme A ligase; very long-chain 3; Solute carrier fam
Gene ID	10998.0
SwissProt ID	Q9Y2P5.The antiserum was produced against synthesized peptide derived from human SLC27A5. AA range:481-530

Application

Dilution Ratio	WB 1:500 - 1:2000 IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:40000. Not yet tested in other applications.
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Molecular Weight 75kD

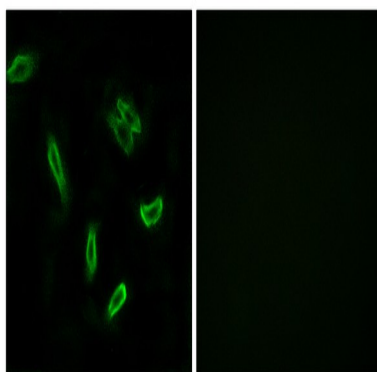
Background

The protein encoded by this gene is an isozyme of very long-chain acyl-CoA synthetase (VLCS). It is capable of activating very long-chain fatty-acids containing 24- and 26-carbons. It is expressed in liver and associated with endoplasmic reticulum but not with peroxisomes. Its primary role is in fatty acid elongation or complex lipid synthesis rather than in degradation. This gene has a mouse ortholog. [provided by RefSeq, Jul 2008],catalytic activity:ATP + (25R)-3-alpha,7-alpha,12-alpha-trihydroxy-5-beta-cholestan-26-oate + CoA = AMP + diphosphate + (25R)-3-alpha,7-alpha,12-alpha-trihydroxy-5-beta-cholestanoyl-CoA.,catalytic activity:ATP + cholate + CoA = AMP + diphosphate + choloyl-CoA.,function:Acyl-CoA synthetase involved in bile acid metabolism. Proposed to catalyze the first step in the conjugation of C24 bile acids (choloneates) to glycine and taurine before excretion into bile canaliculi by activating them to their CoA thioesters. Seems to activate secondary bile acids entering the liver from the enterohepatic circulation. In vitro, also 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.,similarity:Belongs to the ATP-dependent AMP-binding enzyme family.,tissue specificity:Predominantly expressed in liver.,

Research Area

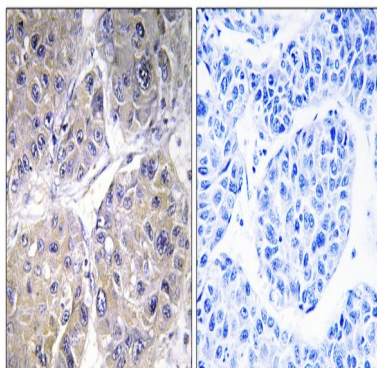
Primary bile acid biosynthesis;PPAR;

Image Data

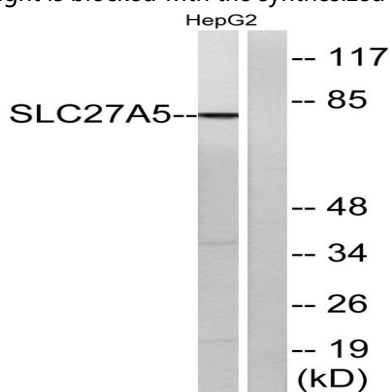


Immunofluorescence analysis of A549 cells, using SLC27A5 Antibody. The picture on the right is blocked with the synthesized peptide.

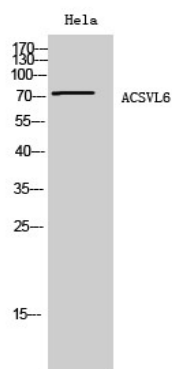
Product Name: ACSVL6 Rabbit Polyclonal Antibody
Catalog #: APRab06540



Immunohistochemistry analysis of paraffin-embedded human liver carcinoma tissue, using SLC27A5 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HepG2 cells, using SLC27A5 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of HeLa cells using ACSVL6 Polyclonal Antibody diluted at 1: 1000

Note

For research use only.