

ACSVL6 Polyclonal Antibody

Catalog No :	YT0095
Reactivity :	Human;Rat;Mouse;
Applications :	WB;IHC;IF;ELISA
Target :	ACSVL6
Fields :	>>Primary bile acid biosynthesis;>>Metabolic pathways;>>PPAR signaling pathway;>>Insulin resistance;>>Bile secretion
Gene Name :	SLC27A5
Protein Name :	Bile acyl-CoA synthetase
Human Gene Id :	10998
Human Swiss Prot No :	Q9Y2P5
Mouse Swiss Prot No :	Q4LDG0
Immunogen :	The antiserum was produced against synthesized peptide derived from human SLC27A5. AA range:481-530
Specificity :	ACSVL6 Polyclonal Antibody detects endogenous levels of ACSVL6 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:40000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 75kD

Cell Pathway : Primary bile acid biosynthesis;PPAR;

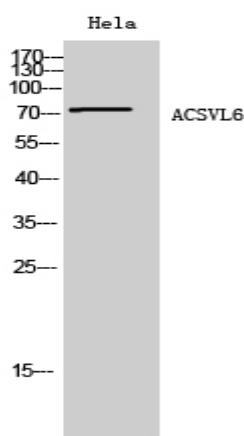
Background : The protein encoded by this gene is an isozyme of very long-chain acyl-CoA synthetase (VLCS). It is capable of activating very long-chain fatty-acids containing 24- and 26-carbons. It is expressed in liver and associated with endoplasmic reticulum but not with peroxisomes. Its primary role is in fatty acid elongation or complex lipid synthesis rather than in degradation. This gene has a mouse ortholog. [provided by RefSeq, Jul 2008],

Function : 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 l

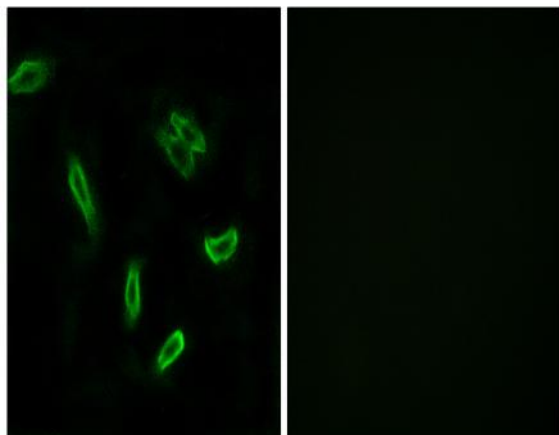
Subcellular Location : Endoplasmic reticulum membrane ; Multi-pass membrane protein . Microsome . Cell membrane ; Multi-pass membrane protein .

Expression : Predominantly expressed in liver.

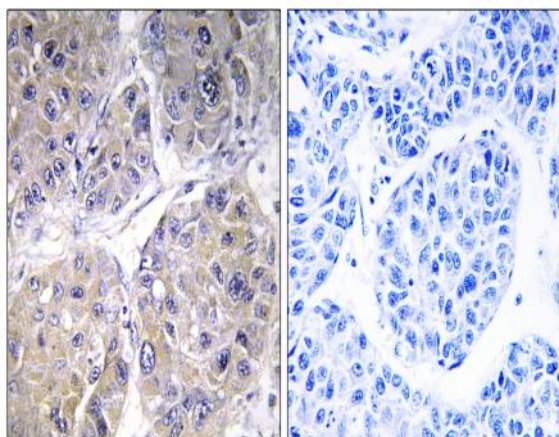
Products Images



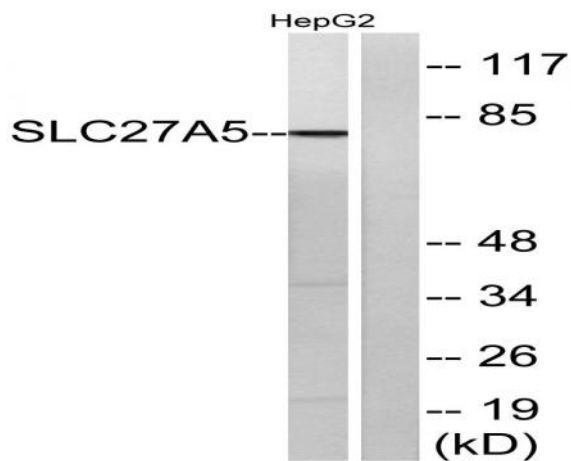
Western Blot analysis of HeLa cells using ACSVL6 Polyclonal Antibody diluted at 1:1000



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



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.