ARG41750
anti-SLC27A2 / FATP2 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes SLC27A2 / FATP2
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	SLC27A2 / FATP2
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 30-200 of Human SLC27A2 / FATP2 (NP_001153101.1).
Conjugation	Un-conjugated
Alternate Names	Fatty-acid-coenzyme A ligase, very long-chain 1; Long-chain-fatty-acid--CoA ligase; FATP-2; EC 6.2.1.-; HsT17226; VLCS; hFACVL1; Very long-chain acyl-CoA synthetase; Fatty acid transport protein 2; VLACS; FATP2; Very long-chain-fatty-acid-CoA ligase; ACSVL1; EC 6.2.1.3; THCA-CoA ligase; FACVL1; Solute carrier family 27 member 2

Application Instructions

Application table

Application	Dilution
ICC/IF	1:50 - 1:200
IHC-P	1:50 - 1:200
WB	1:500 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	HepG2
Observed Size	~ 70 kDa

Properties

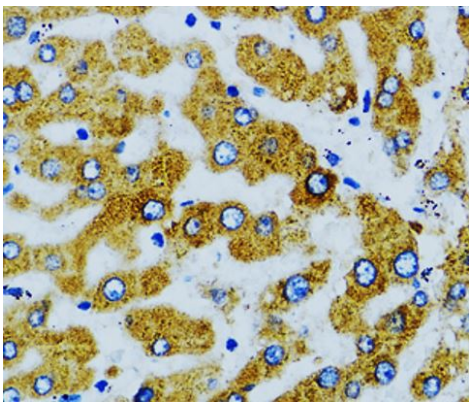
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

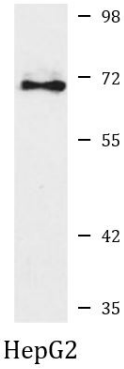
Gene Symbol	SLC27A2
Gene Full Name	solute carrier family 27 (fatty acid transporter), member 2
Background	The protein encoded by this gene is an isozyme of long-chain fatty-acid-coenzyme A ligase family. Although differing in substrate specificity, subcellular localization, and tissue distribution, all 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. [provided by RefSeq, Apr 2009]
Function	Acyl-CoA synthetase probably involved in bile acid metabolism. Proposed to activate C27 precurors of bile acids to their CoA thioesters derivatives before side chain cleavage via peroxisomal beta-oxidation occurs. 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. Does not utilize C24 bile acids as substrates. In vitro, also activates long- and branched-chain fatty acids and may have additional roles in fatty acid metabolism. May be involved in translocation of long-chain fatty acids (LFCA) across membranes (By similarity). [UniProt]
Calculated Mw	70 kDa
Cellular Localization	Endoplasmic reticulum membrane; Multi-pass membrane protein. Peroxisome membrane; Multi-pass membrane protein. Note=Peripheral membrane associated with the lumenal side of peroxisomes. [UniProt]

Images



ARG41750 anti-SLC27A2 / FATP2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human liver tissue stained with ARG41750 anti-SLC27A2 / FATP2 antibody at 1:100 dilution.



ARG41750 anti-SLC27A2 / FATP2 antibody WB image

Western blot: 25 µg of HepG2 cell lysate stained with ARG41750 anti-SLC27A2 / FATP2 antibody.