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SLC27A2 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI12335

Product Information

Application	WB, IHC
Primary Accession	O14975
Other Accession	NM_003645, NP_003636
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70312

Additional Information

Gene ID	11001
Alias Symbol	ACSVL1, FACVL1, FATP2, HsT17226, VLACS, VLCS, hFACVL1
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
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-SLC27A2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	SLC27A2 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

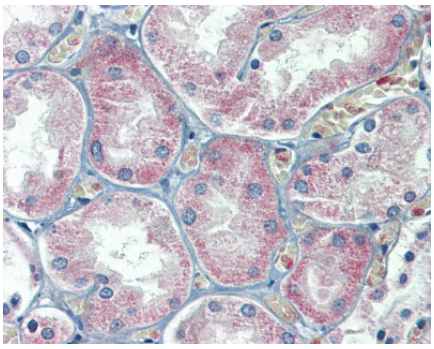
Name	SLC27A2
Synonyms	ACSVL1, FACVL1, FATP2, VLACS
Function	Mediates the import of long-chain fatty acids (LCFA) into the cell by facilitating their transport across cell membranes, playing an important role in hepatic fatty acid uptake (PubMed:10198260, PubMed:10749848, PubMed:11980911, PubMed:20530735, PubMed:22022213, PubMed:24269233). Also functions as an acyl-CoA ligase catalyzing the

	ATP-dependent formation of fatty acyl-CoA using LCFA and very-long- chain fatty acids (VLCFA) as substrates, which prevents fatty acid efflux from cells and might drive more fatty acid uptake (PubMed:10198260, PubMed:10749848, PubMed:11980911, PubMed:20530735, PubMed:22022213, PubMed:24269233). Plays a pivotal role in regulating available LCFA substrates from exogenous sources in tissues undergoing high levels of beta-oxidation or triglyceride synthesis (PubMed:20530735). Can also activate branched-chain fatty acids such as phytanic acid and pristanic acid (PubMed:10198260). May contribute to the synthesis of sphingosine-1-phosphate (PubMed:24269233). 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). However, it is not critical for THCA activation and bile synthesis in vivo (PubMed:20530735).
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein. Peroxisome membrane; Peripheral membrane protein. Cell membrane; Multi-pass membrane protein. Microsome
Tissue Location	[Isoform 1]: Expressed in liver, kidney, placenta, intestine, brain, heart, and colon (PubMed:10198260, PubMed:21768100, PubMed:24269233). Predominantly expressed in liver (PubMed:20530735)

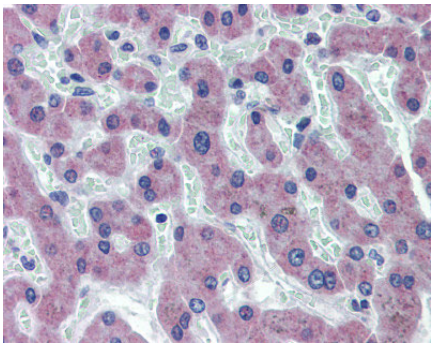
References

Mihalik,S.J.,(2002)J.Biol.Chem.277(27),24771-24779ReconstitutionandStorage:Forshorttermuse,storeat2-8Cupto1week.Forlongtermstorage,storeat-20Cinsmallaliquotstopreventfreeze-thawcycles.

Images

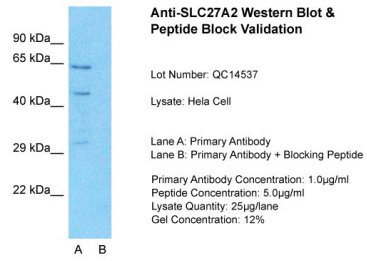


Liver, Human: Formalin-Fixed, Paraffin-Embedded (FFPE)



Liver, Human: Formalin-Fixed, Paraffin-Embedded (FFPE)

Host: Rabbit
Target Name:SLC27A2



Sample Tissue:Hela
Lane A: Primary Antibody
Lane B: Primary Antibody + Blocking Peptide
Primary Antibody
Concentration:1µg/ml
Peptide Concentration: 5.0 µg/ml
Lysate Quantity: 25ug/lane/lane Gel
Concentration: 12%SLC27A2 is strongly supported by BioGPS gene expression data to be expressed in Human HeLa cells