10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SLC27A2 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI12335

Specification

SLC27A2 antibody - N-terminal region - Product Information

Application	**IHC, WB**
Primary Accession	O14975
Other Accession	NM_003645, NP_003636
Reactivity	**Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**70kDa KDa**

SLC27A2 antibody - N-terminal region - 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.

SLC27A2 antibody - N-terminal region - 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)

SLC27A2 antibody - N-terminal region - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SLC27A2 antibody - N-terminal region - Images

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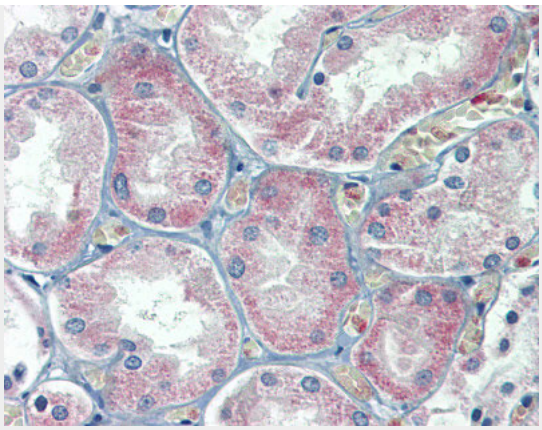
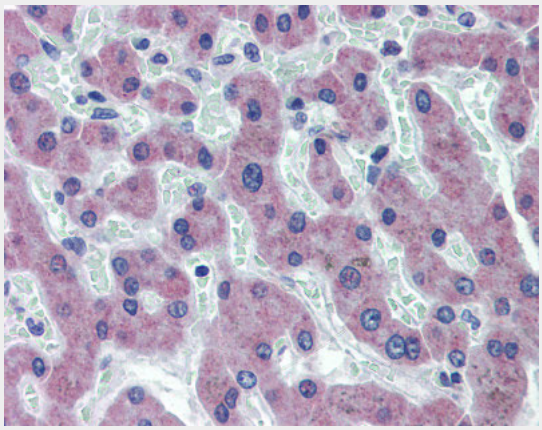
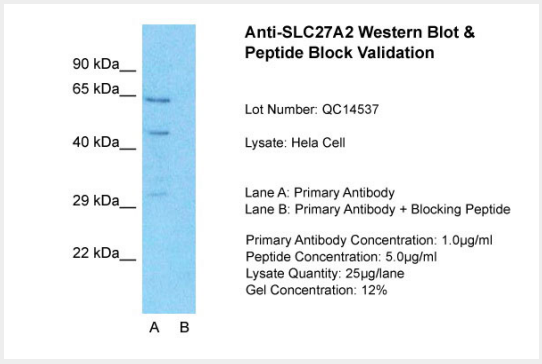


Liver, Human: Formalin-Fixed, Paraffin-Embedded (FFPE)



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

SLC27A2 antibody - N-terminal region - References

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