

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)

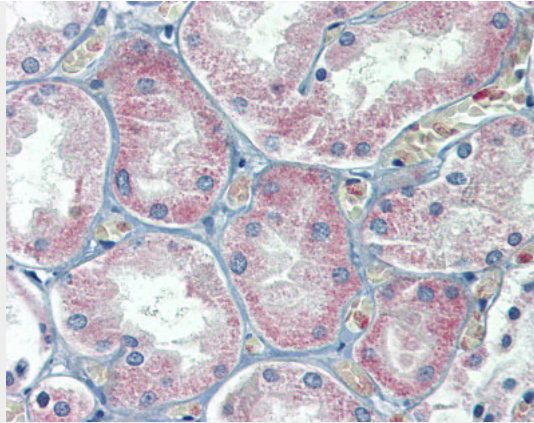
SLC27A2 antibody - N-terminal region - Protocols

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

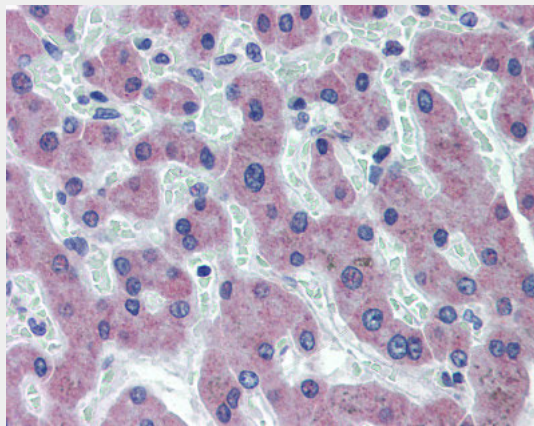
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SLC27A2 antibody - N-terminal region - Images

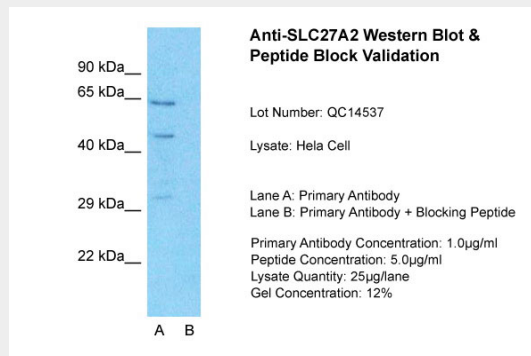




Liver, Human: Formalin-Fixed, Paraffin-Embedded (FFPE)



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: 1 µg/ml

Peptide Concentration: 5.0 µg/ml

Lysate Quantity: 25 µg/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), 24771-24779 Reconstitution and Storage: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.