

SLC27A6 Antibody

Catalog # ASC11642

Product Information

Application	WB, IF, E
Primary Accession	Q9Y2P4
Other Accession	NP_054750 , 13325055
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	70112
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	SLC27A6 antibody can be used for detection of SLC27A6 by Western blot at 1 - 2 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	28965
Other Names	Long-chain fatty acid transport protein 6, FATP-6, Fatty acid transport protein 6, Fatty-acid-coenzyme A ligase, very long-chain 2, Solute carrier family 27 member 6, Very long-chain acyl-CoA synthetase homolog 1, VLCSH1, hVLCSH1, SLC27A6, ACSVL2, FACVL2, FATP1
Target/Specificity	SLC27A6; SLC27A6 antibody is predicted to not cross-react with other SLC27 protein family members.
Reconstitution & Storage	SLC27A6 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Precautions	SLC27A6 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SLC27A6
Synonyms	ACSVL2, FACVL2, FATP6
Function	Mediates the import of long-chain fatty acids (LCFA) into the cell by facilitating their transport at the plasma membrane (PubMed: 12556534). 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 (By similarity). Plays a pivotal role in regulating available LCFA substrates from exogenous sources in tissues undergoing high levels of beta-oxidation such as the heart (PubMed: 12556534).

Cellular Location	Cell membrane, sarcolemma; Multi-pass membrane protein. Cell membrane {ECO:0000250 UniProtKB:E9Q9W4}; Multi-pass membrane protein. Note=In heart is exclusively located on the sarcolemma in areas juxtaposed with small blood vessels where it colocalizes CD36.
Tissue Location	Strongly expressed in heart and localizes to cardiac myocytes (PubMed:12556534). Expressed at moderate levels in placenta, testis, and adrenal glands. Expressed at very low levels in kidney, bladder and uterus.

Background

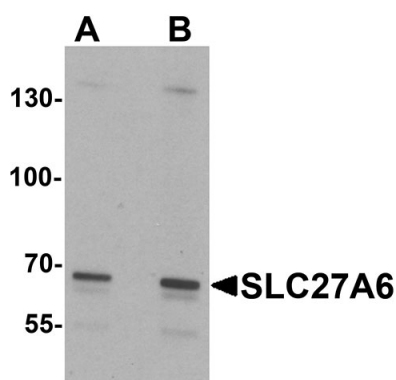
SLC27A6 Antibody: The solute carrier family 27 (fatty acid transporter), member 6 (SLC27A6) is a member of the fatty acid transport protein family (FATP), which are involved in the uptake of long-chain fatty acids. SLC27A6 is principally expressed in the heart on the sarcolemma and colocalizes with CD36, another molecule involved in the uptake of long chain fatty acids.

References

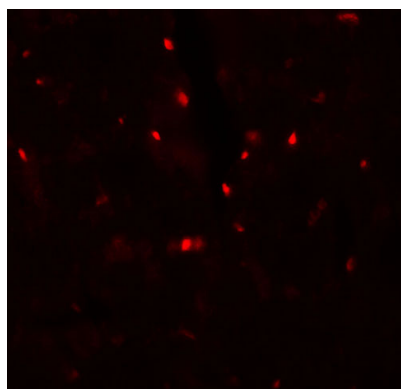
Gimeno RE, Ortegon AM, Patel S, et al. Characterization of a heart-specific fatty acid transport protein. J. Biol. Chem. 2003;278:16039-44.

Fisher RM and Gertow K. Fatty acid transport proteins and insulin resistance. Curr. Opin. Lipidol. 2005; 16:173-8.

Images



Western blot analysis of SLC27A6 in A20 cell lysate with SLC27A6 antibody at (A) 1 and (B) 2 µg/mL.



Immunofluorescence of SLC27A6 in rat heart tissue with SLC27A6 antibody at 20 µg/mL.