

Anti-SLC27A4 / FATP4 Rabbit Monoclonal Antibody
Catalog # ABO16009**Specification****Anti-SLC27A4 / FATP4 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IF, ICC, FC
Primary Accession	Q6P1M0
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

Description

Anti-SLC27A4 / FATP4 Rabbit Monoclonal Antibody . Tested in WB, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

Anti-SLC27A4 / FATP4 Rabbit Monoclonal Antibody - Additional Information

Gene ID 10999

Other Names

Long-chain fatty acid transport protein 4, FATP-4, Fatty acid transport protein 4, Arachidonate--CoA ligase, SLC27A4 (HGNC:10998)

Calculated MW

72 kDa KDa

Application Details

WB 1:500-1:2000
ICC/IF 1:50-1:200
FC 1:100

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human SLC27A4 / FATP4

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Anti-SLC27A4 / FATP4 Rabbit Monoclonal Antibody - Protein Information

Name SLC27A4 ([HGNC:10998](#))

Function

Mediates the levels of long-chain fatty acids (LCFA) in the cell by facilitating their transport across cell membranes (PubMed:[10518211](http://www.uniprot.org/citations/10518211)), PubMed:[12556534](http://www.uniprot.org/citations/12556534)), PubMed:[20448275](http://www.uniprot.org/citations/20448275)), PubMed:[21395585](http://www.uniprot.org/citations/21395585)), PubMed:[22022213](http://www.uniprot.org/citations/22022213)). Appears to be the principal fatty acid transporter in small intestinal enterocytes (PubMed:[20448275](http://www.uniprot.org/citations/20448275)). 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:[22022213](http://www.uniprot.org/citations/22022213)), PubMed:[24269233](http://www.uniprot.org/citations/24269233)). Plays a role in the formation of the epidermal barrier. Required for fat absorption in early embryogenesis (By similarity). Probably involved in fatty acid transport across the blood barrier (PubMed:[21395585](http://www.uniprot.org/citations/21395585)). Indirectly inhibits RPE65 via substrate competition and via production of VLCFA derivatives like lignoceroyl-CoA. Prevents light-induced degeneration of rods and cones (By similarity).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Location

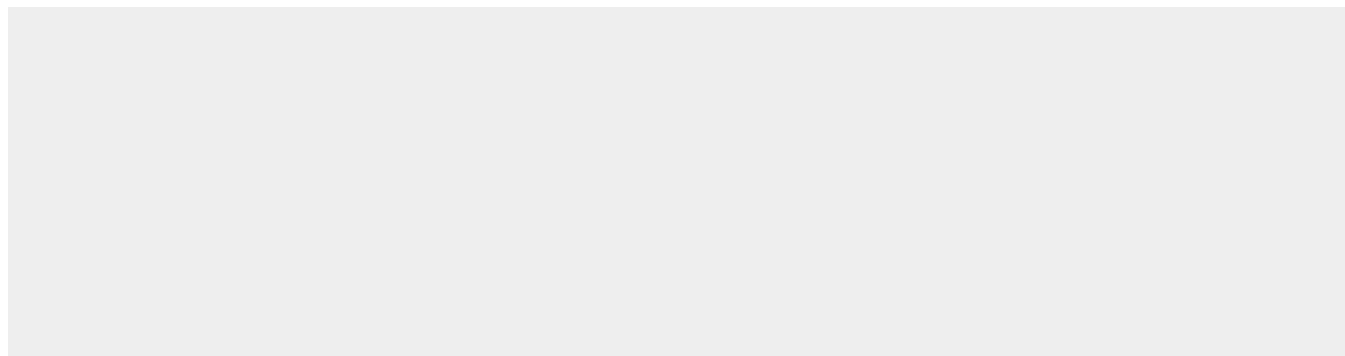
Expressed at highest levels in brain, testis, colon and kidney. Expressed at medium levels in heart and liver, small intestine and stomach. Expressed at low levels in peripheral leukocytes, bone marrow, skeletal muscle and aorta. Expressed in adipose tissue (PubMed:24269233, PubMed:9878842). Expressed in brain gray matter (PubMed:21395585).

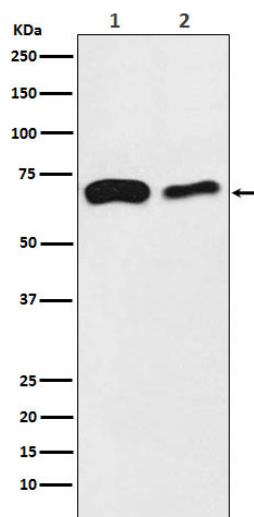
Anti-SLC27A4 / FATP4 Rabbit Monoclonal Antibody - Protocols

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](#)

Anti-SLC27A4 / FATP4 Rabbit Monoclonal Antibody - Images





Western blot analysis of SLC27A4 / FATP4 expression in (1) HeLa cell lysate; (2) Mouse kidney lysate.