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SLC27A4 / FATP4 (15B5) Rabbit Monoclonal Antibody

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Catalog # AP93706

Specification

SLC27A4 / FATP4 (15B5) Rabbit Monoclonal Antibody - Product Information

Application	WB, IF, FC, ICC
Primary Accession	Q6P1M0
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Calculated MW	72064

SLC27A4 / FATP4 (15B5) 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)

Dilution
WB~~1:1000
IF~~1:50~200
FC~~1:10~50
ICC~~N/A

Storage Conditions
-20℃

SLC27A4 / FATP4 (15B5) 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, PubMed:12556534, PubMed:20448275, PubMed:21395585, PubMed:22022213). Appears to be the principal fatty acid transporter in small intestinal enterocytes (PubMed: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,

PubMed: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). 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

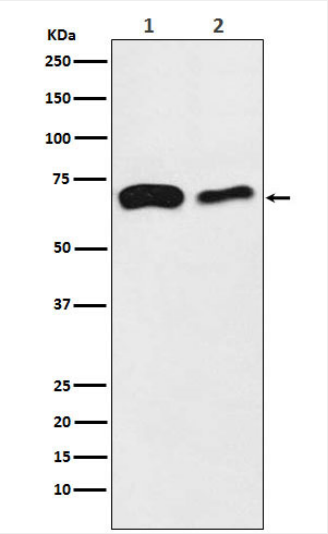
Tissue Location
Expressed at highest levels in brain, testis, colon and kidney. Expressed at medium levels in heart and liver, small intestine and stomach. Expressed at low levels in peripheral leukocytes, bone marrow, skeletal muscle and aorta. Expressed in adipose tissue (PubMed:24269233, PubMed:9878842).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

SLC27A4 / FATP4 (15B5) 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 Cytomety
- Cell Culture

SLC27A4 / FATP4 (15B5) Rabbit Monoclonal Antibody - Images



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