

Recombinant Anti-FATP4 Rabbit mAb

Catalog # AP95133

Product Information

Application	WB, FC, IF/IC
Primary Accession	Q6P1M0
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal
Calculated MW	72064

Additional Information

Gene ID	10999
Other Names	ACSVL4; FATP4; Long-chain fatty acid transport protein 4; FATP-4; Fatty acid transport protein 4; Solute carrier family 27 member 4
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human FATP4 protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) FC~~1:10~50 IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

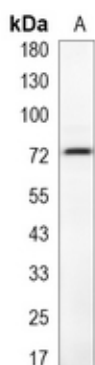
Protein Information

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

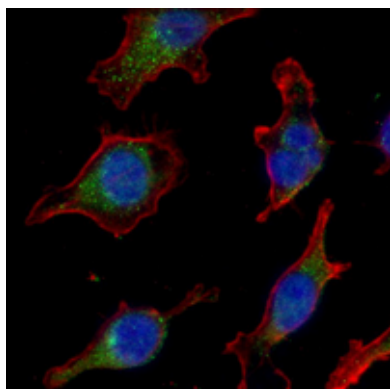
Tissue Location

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).

Images



Western blot analysis of FATP4 expression in HeLa (A) whole cell lysates. (Predicted band size: 72 kD; Observed band size: 72 kD)



Immunofluorescent analysis of FATP4 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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