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SLC27A4 / FATP4 Rabbit mAb

Catalog # AP76092

Product Information

Application	WB, IHC-P, IP
Primary Accession	Q6P1M0
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	72064

Additional Information

Gene ID	10999
Other Names	SLC27A4
Dilution	WB~~1:500-1:1000 IHC-P~~N/A IP~~1:20-1:50
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

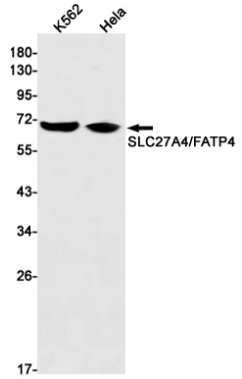
Name	SLC27A4 (HGNC:10998)
Function	Mediates the levels of long-chain fatty acids (LCFA) in the cell by facilitating their transport across cell membranes (PubMed:10518211, PubMed:12556534, PubMed:20448275, PubMed:21395585, PubMed:22022213). Appears to be the principal fatty acid transporter in small 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).

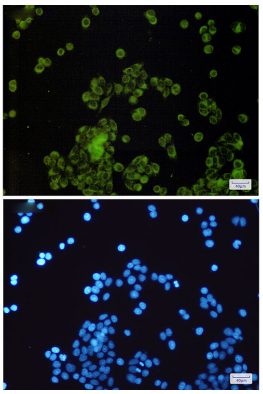
Background

plays a role in the transport of long chain fatty acids across the plasma membrane. It has acyl-coA ligase activity for long chain and very long chain fatty acids.

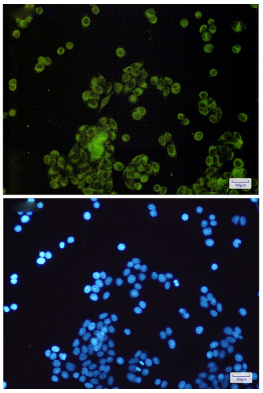
Images

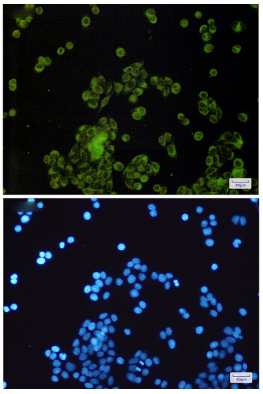


Western blot analysis of SLC27A4/FATP4 in K562, Hela lysates using SLC27A4 antibody.



Immunocytochemistry analysis of SLC27A4/FATP4(green) in Hela using SLC27A4/FATP4 antibody,and DAPI(blue)





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