Immunoway
Best Tools for immunology Research

ACSVL4 Polyclonal Antibody

Catalog No :	YT0094
Reactivity :	Human;Mouse
Applications :	IF;ELISA
Target :	ACSVL4
Fields :	>>PPAR signaling pathway;>>Insulin resistance;>>Fat digestion and absorption
Gene Name :	SLC27A4
Protein Name :	Long-chain fatty acid transport protein 4
Human Gene Id :	10999
Human Swiss Prot No :	Q6P1M0
Mouse Swiss Prot No :	Q91VE0
Immunogen :	The antiserum was produced against synthesized peptide derived from human SLC27A4. AA range:61-110
Specificity :	ACSVL4 Polyclonal Antibody detects endogenous levels of ACSVL4 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 72kD

Cell Pathway : PPAR;

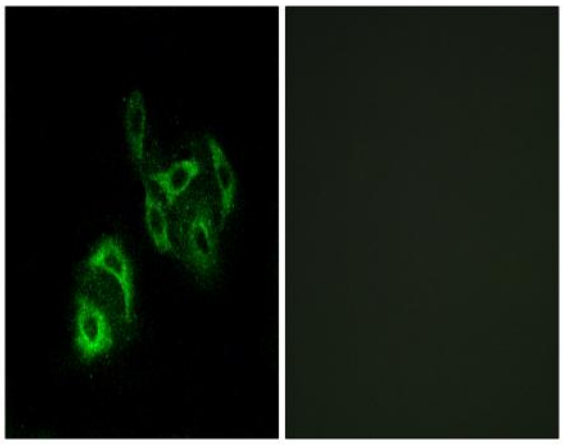
Background : This gene encodes a member of a family of fatty acid transport proteins, which are involved in translocation of long-chain fatty acids cross the plasma membrane. This protein is expressed at high levels on the apical side of mature enterocytes in the small intestine, and appears to be the principal fatty acid transporter in enterocytes. Clinical studies suggest this gene as a candidate gene for the insulin resistance syndrome. Mutations in this gene have been associated with ichthyosis prematurity syndrome. [provided by RefSeq, Apr 2010],

Function : function:Involved in translocation of long-chain fatty acids (LFCA) across the plasma membrane. Appears to be the principal fatty acid transporter in small intestinal enterocytes. Plays a role in the formation of the epidermal barrier. Required for fat absorption in early embryogenesis. Has acyl-CoA ligase activity for long-chain and very-long-chain fatty acids.,miscellaneous:SLC27A4/FATP4-mediated fatty acid uptake is associated to paramaters related to insulin resistance, which is associated with disturbed fatty acid metabolism and homeostasis, such as obesity. SLC27A4/FATP4 expression is positively correlated with aquired obesity.,similarity:Belongs to the ATP-dependent AMP-binding enzyme family.,tissue specificity: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 perip

Subcellular Location : Endoplasmic reticulum membrane ; Multi-pass membrane protein .

Expression : 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).

Products Images



Immunofluorescence analysis of A549 cells, using SLC27A4 Antibody. The picture on the right is blocked with the synthesized peptide.