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SLC27A4 Recombinant Monoclonal Antibody

Product Code	CSB-RA235828A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q6P1M0
Immunogen	A synthesized peptide derived from human SLC27A4
Species Reactivity	Human, Mouse
Tested Applications	ELISA, WB; Recommended dilution: WB:1:500-1:2000
Relevance	Involved in translocation of long-chain fatty acids (LFCA) across the plasma membrane (PubMed:12556534, PubMed:21395585). Has acyl-CoA ligase activity for long-chain and very-long-chain fatty acids (VLCFAs) (PubMed:24269233). 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 (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). {ECO:000250 UniProtKB:Q91VE0, ECO:000269 PubMed:12556534, ECO:000269 PubMed:21395585, ECO:000269 PubMed:24269233}.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience; Cardiovascular; Metabolism; Signal transduction
Gene Names	SLC27A4
Clone No.	11A1

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Description

The SLC27A4 monoclonal antibody was produced using thesynthesized peptide derived from human SLC27A4 protein as the immunogen. The cDNA was sequenced to obtain the DNA sequence of the SLC27A4 monoclonal antibody, and the gene was then cloned into a plasmid vector. The plasmid vector was transfected into the host cell using a suitable method. The resulting SLC27A4 recombinant monoclonal antibody was purified using affinity chromatography, and its specificity was tested in ELISA and WB. It can detect human and mouse SLC27A4 proteins.

The SLC27A4 protein, also known as FATP4, mainly transports long-chain fatty acids into cells. It is primarily expressed in the liver and small intestine. It plays a crucial role in lipid metabolism and homeostasis, as well as energy production. Mutations in the SLC27A4 gene have been linked to several metabolic disorders, including ichthyosis prematurity syndrome, a rare genetic disorder characterized by dry, scaly skin and respiratory problems.