10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-ELOVL4 Antibody

Catalog # AP60057

Product Information

Application	WB, IF/IC
Primary Accession	Q9GZR5
Reactivity	Human, Mouse, Rat, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	36829

Additional Information

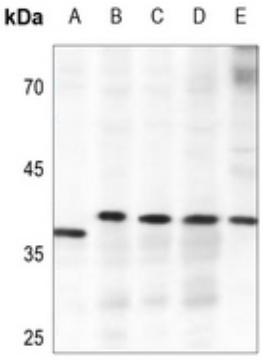
Gene ID	6785
Other Names	Elongation of very long chain fatty acids protein 4; 3-keto acyl-CoA synthase ELOVL4; ELOVL fatty acid elongase 4; ELOVL FA elongase 4; Very-long-chain 3-oxoacyl-CoA synthase 4
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ELOVL4. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

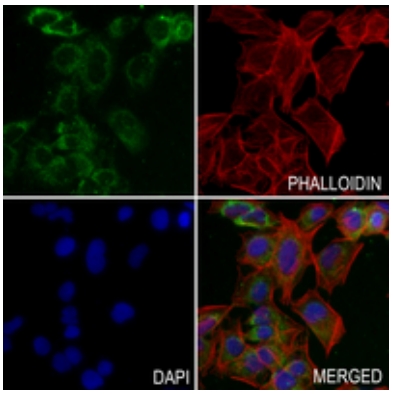
Name	ELOVL4 {ECO:0000255|HAMAP-Rule:MF_03204}
Function	Catalyzes the first and rate-limiting reaction of the four reactions that constitute the long-chain fatty acids elongation cycle. This endoplasmic reticulum-bound enzymatic process allows the addition of 2 carbons to the chain of long- and very long-chain fatty acids (VLCFAs) per cycle. Condensing enzyme that catalyzes the synthesis of very long chain saturated (VLC-SFA) and polyunsaturated (PUFA) fatty acids that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators. May play a critical role in early brain and skin development.
Cellular Location	Endoplasmic reticulum membrane {ECO:0000255|HAMAP-Rule:MF_03204, ECO:0000269|PubMed:16036915, ECO:0000269|PubMed:20937905}; Multi-pass membrane protein {ECO:0000255|HAMAP-Rule:MF_03204}
Tissue Location	Expressed in the retina and at much lower level in the brain. Ubiquitous,

highest expression in thymus, followed by testis, small intestine, ovary, and prostate. Little or no expression in heart, lung, liver, or leukocates.

Images



Western blot analysis of ELOVL4 expression in SKOVCAR3 (A), HCT116 (B), PC3 (C), CT26 (D), rat testis (E) whole cell lysates. (Predicted band size: 36 kD; Observed band size: 37 kD)



Immunofluorescent analysis of ELOVL4 staining in HuH7 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 hidified chamber. Cells were washed with PBST and incubated with a 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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.