

Rabbit anti-Human, Mouse ELOVL1 Polyclonal Antibody | anti-ELOVL1 antibody

ELOVL1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321178	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

ELOVL1; Polyclonal Antibody; ELOVL1 Antibody; 3 keto acyl CoA synthase ELOVL1; 3-keto acyl-CoA synthase ELOVL1; CGI 88; Elongation of very long chain fatty acids (FEN1/Elo2 SUR4/Elo3 yeast) like 1; Elongation of very long chain fatty acids like 1; Elongation of very long chain fatty acids protein 1; ELOV1_HUMAN; ELOVL 1; ELOVL FA elongase 1; ELOVL fatty acid elongase 1; Ssc1; mouse; homolog of; very long chain 3 oxoacyl CoA synthase 1; Very-long-chain 3-oxoacyl-CoA synthase 1; anti-ELOVL1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	ELOVL1 antibody detects endogenous levels of ELOVL1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	279
Applicable Applications for anti-ELOVL1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ELOVL1
Subcellular Location	Endoplasmic Reticulum
Tissue Specificity	Ubiquitous.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (89%), Horse (100%), Sheep (89%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA321178 staining Hela cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis on Jurkat cell lysate using ELOVL1 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ELOVL1 antibody

Description: ELOVL1 Could be implicated in tissue-specific synthesis of very long chain fatty acids and sphingolipids. May catalyze one or both of the reduction reaction in fatty acid elongation, i.e., conversion of beta-ketoacyl CoA to beta-hydroxyacyl CoA or reduction of trans-2-enoyl CoA to the saturated acyl CoA derivative.
Function: Catalyzes the first and rate-limiting reaction of the four 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 exhibits activity toward saturated C18 to C26 acyl-CoA substrates, with the highest activity towards C22:0 acyl-CoA. May participate in the production of both saturated and monounsaturated VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators. Important for saturated C24:0 and monounsaturated C24:1 sphingolipid synthesis. Indirectly inhibits RPE65 via production of VLCFAs.
Subunit Structure: Interacts with LASS2, TECR and HSD17B12.
Similarity: The C-terminal di-lysine motif may confer endoplasmic reticulum localization. Belongs to the ELO family. ELOVL1 subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	373938448
NCBI GeneID	64834
NCBI Accession #	NP_001243328.1
NCBI GenBank Nucleotide #	NM_001256399.1
UniProt Accession #	Q9BW60; Q53HT2; Q5JUY3; Q8WXU3; Q9NVD9; Q9Y396; B4DP24
Molecular Weight	Observed: 35 kDa Predicted: 33 kDa
NCBI Official Full Name	elongation of very long chain fatty acids protein 1 isoform 1
NCBI Official Synonym Full Names	ELOVL fatty acid elongase 1
NCBI Official Symbol	ELOVL1
NCBI Official Synonym Symbols	Ssc1; CGI-88
NCBI Protein Information	elongation of very long chain fatty acids protein 1
UniProt Protein Name	Elongation of very long chain fatty acids protein 1
UniProt Gene Name	ELOVL1
UniProt Synonym Gene Names	SSC1; ELOVL FA elongase 1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.