ELOVL2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ELOVL2, Polyclonal Antibody
Full Product Name	ELOVL2, NT (ELOVL2, SSC2, Elongation of very long chain fatty acids protein 2, 3-keto acyl-CoA synthase ELOVL2, ELOVL fatty acid elongase 2) (MaxLight 650)
Product Gene Name	anti-ELOVL2 antibody
Product Synonym Names	ELOVL2; SSC2; Elongation of very long chain fatty acids protein 2; 3-keto acyl-CoA synthase ELOVL2; ELOVL fatty acid elongase 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	34,585 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (10980992..11044624, complement). Location: 6p24.2
OMIM	611814
3D Structure	ModBase 3D Structure for Q9NXB9
Immunogen	ELOVL2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 7~36 amino acids from the N-terminal region of human ELOVL2.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-ELOVL2 antibody	Antibodies; Enzymes; Synthase
Applications Tested/Suitable for anti-ELOVL2 antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-ELOVL2 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-ELOVL2 antibody	ELOVL2 could be implicated in tissue-specific synthesis of very long chain fatty acids and sphingolipids. This protein 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 (By similarity).
Product References and Citations for anti-ELOVL2 antibody	Illig, T., et.al., Nat. Genet. 42 (2), 137-141 (2010). Tanaka, T., et.al., PLoS Genet. 5 (1), E1000338 (2009).

Other Notes	Small volumes of anti-ELOVL2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ELOVL2 purchase	MBS6295366 is an antibody targeting ELOVL2. Also known as ELOVL2, NT (ELOVL2, SSC2, Elongation of very long chain fatty acids protein 2, 3-keto acyl-CoA synthase ELOVL2, ELOVL fatty acid elongase 2) (MaxLight 650). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ELOVL2. It may not necessarily be applicable to this product.

NCBI GI #	157388945
NCBI GeneID	54898
NCBI Accession #	NP_060240.3
UniProt Primary Accession #	Q9NXB9
UniProt Secondary Accession #	Q6P9E1; Q86W94
UniProt Related Accession #	Q9NXB9
GenBank Nucleotide #	NM_017770.3
NCBI Official Full Name	elongation of very long chain fatty acids protein 2
NCBI Official Synonym Full Names	ELOVL fatty acid elongase 2
NCBI Official Symbol	ELOVL2
NCBI Official Synonym Symbols	SSC2
UniProt Protein Name	Elongation of very long chain fatty acids protein 2
UniProt Synonym Protein Names	3-keto acyl-CoA synthase ELOVL2; ELOVL fatty acid elongase 2; ELOVL FA elongase 2; Very-long-chain 3-oxoacyl-CoA synthase 2
Protein Family	Elongation of very long chain fatty acids protein
UniProt Gene Name	ELOVL2
UniProt Synonym Gene Names	SSC2; ELOVL FA elongase 2
UniProt Entry Name	ELOV2_HUMAN
NCBI Protein Information	elongation of very long chain fatty acids protein 2; ELOVL FA elongase 2; 3-keto acyl-CoA synthase ELOVL2; very-long-chain 3-oxoacyl-CoA synthase 2; elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 2
UniProt Comments for ELOVL2	ELOVL2: Condensing enzyme that catalyzes the synthesis of polyunsaturated very long chain fatty acid (C20- and C22-PUFA). Acts specifically toward polyunsaturated acyl-CoA with the higher activity toward C20:4(n-6) acyl-CoA. Belongs to the ELO family. Protein type: Membrane protein, multi-pass; Lipid Metabolism - unsaturated fatty acid biosynthesis; EC 2.3.1.199; Membrane protein, integral Chromosomal Location of Human Ortholog: 6p24.2 Cellular Component: endoplasmic reticulum membrane; endoplasmic reticulum; integral to membrane Molecular Function: protein binding; fatty acid elongase activity Biological Process: unsaturated fatty acid metabolic process; very-long-chain fatty acid biosynthetic process; linoleic acid metabolic process; triacylglycerol biosynthetic process; unsaturated fatty acid biosynthetic process; cellular lipid metabolic process

Research Articles on ELOVL2	**1.** we do not found the association between rs3756593 of ELOVL2 gene and acute coronary syndrome in Chinese Han population
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