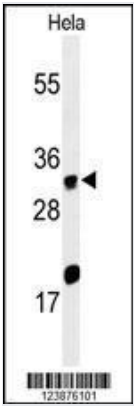
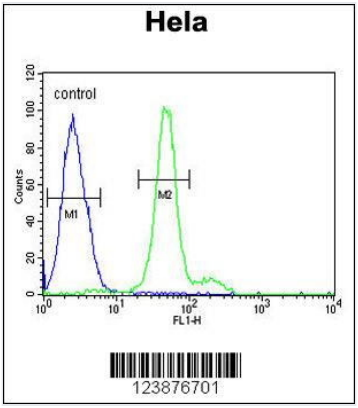
ELOVL5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ELOVL5, Polyclonal Antibody
Full Product Name	ELOVL5, CT (ELOVL5, ELOVL2, Elongation of very long chain fatty acids protein 5, 3-keto acyl-CoA synthase ELOVL5, ELOVL fatty acid elongase 5, Fatty acid elongase 1)
Product Gene Name	anti-ELOVL5 antibody
Product Synonym Names	Anti -ELOVL5, CT (ELOVL5, ELOVL2, Elongation of very long chain fatty acids protein 5, 3-keto acyl-CoA synthase ELOVL5, ELOVL fatty acid elongase 5, Fatty acid elongase 1)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Human
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	35,293 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (53132196..53213977, complement). Location: 6p21.1-p12.1
OMIM	611805
3D Structure	ModBase 3D Structure for Q9NYP7
Immunogen	ELOVL5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 270~299 amino acids from the C-terminal region of human ELOVL5.
Product Categories/Family for anti-ELOVL5 antibody	Antibodies; Abs to Enzymes; Synthase
Applications Tested/Suitable for anti-ELOVL5 antibody	ELISA (EL/EIA), Western Blot (WB), Flow Cytometry (FC/FACS)
Application Notes for anti-ELOVL5 antibody	Suitable for use in Western Blot, Flow Cytometry, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:100-500 Flow Cytometry: 1:10-50
Related Product Information for anti-ELOVL5 antibody	MBS6003291 is an antibody targeting ELOVL5. Also known as ELOVL5, CT (ELOVL5, ELOVL2, Elongation of very long chain fatty acids protein 5, 3-keto acyl-CoA synthase ELOVL5, ELOVL fatty acid elongase 5, Fatty acid elongase 1). Reactive in Human. Host: Rabbit. ELOVL5 plays a role in elongation of long-chain polyunsaturated fatty acids.
Other Notes	Small volumes of anti-ELOVL5 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.



Western Blot (WB) of anti-ELOVL5 antibody
Western blot analysis of ELOVL5 Antibody (C-term) in Hela cell line lysates (35ug/lane). ELOVL5 (arrow) was detected using the purified Pab.



Flow Cytometry (FC/FACS) of anti-ELOVL5 antibody
ELOVL5 Antibody (C-term) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ELOVL5. It may not necessarily be applicable to this product.

NCBI GI #	338827653
NCBI GeneID	60481
NCBI Accession #	NP_001229760.1
UniProt Primary Accession #	Q9NYP7
UniProt Secondary Accession #	Q59EL3; Q5TGH5; Q6NXE7; Q7L2S5; Q8NCG4; Q9UI22; B4DZJ2; F6SH78
UniProt Related Accession #	Q9NYP7
GenBank Nucleotide #	NM_001242831.1
NCBI Official Full Name	elongation of very long chain fatty acids protein 5 isoform 4
NCBI Official Synonym Full Names	ELOVL fatty acid elongase 5
NCBI Official Symbol	ELOVL5
NCBI Official Synonym Symbols	HELO1; dJ483K16.1; RP3-483K16.1
UniProt Protein Name	Elongation of very long chain fatty acids protein 5
UniProt Synonym Protein Names	3-keto acyl-CoA synthase ELOVL5; ELOVL fatty acid elongase 5; ELOVL FA elongase 5; Fatty acid elongase 1; hELO1; Very-long-chain 3-oxoacyl-CoA synthase 5
UniProt Gene Name	ELOVL5
UniProt Synonym Gene Names	ELOVL2; ELOVL FA elongase 5; hELO1
UniProt Entry Name	ELOV5_HUMAN
NCBI Protein Information	elongation of very long chain fatty acids protein 5; ELOVL FA elongase 5; fatty acid elongase 1; 3-keto acyl-CoA synthase ELOVL5; very-long-chain 3-oxoacyl-CoA synthase 5; homolog of yeast long chain polyunsaturated fatty acid elongatio; homolog of yeast long chain polyunsaturated fatty acid elongation enzyme 2; ELOVL family member 5, elongation of long chain fatty acids (FEN1/Elo2, SUR4/Elo3-like, yeast)
NCBI Summary for ELOVL5	ELOVL5 plays a role in elongation of long-chain polyunsaturated fatty acids (Leonard et al., 2000 [PubMed 10970790]).[supplied by OMIM, Mar 2008]

UniProt Comments for ELOVL5	ELOVL5: Condensing enzyme that catalyzes the synthesis of monounsaturated and of polyunsaturated very long chain fatty acids Acts specifically toward polyunsaturated acyl-CoA with the higher activity toward C18:3(n-6) acyl-CoA. Belongs to the ELO family. Protein type: EC 2.3.1.199; Membrane protein, multi-pass; Membrane protein, integral; Lipid Metabolism - unsaturated fatty acid biosynthesis Chromosomal Location of Human Ortholog: 6p12.1 Cellular Component: endoplasmic reticulum membrane; membrane; cell soma; endoplasmic reticulum; dendrite; 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; unsaturated fatty acid biosynthetic process; triacylglycerol biosynthetic process; cellular lipid metabolic process Disease: Spinocerebellar Ataxia 38
Research Articles on ELOVL5	**1.** a novel link between Elovl5-mediated synthesis of 18:1,n-7 and GNG through the control of the mTORC2-Akt-FoxO1 pathway
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