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ELOVL1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17913A

Specification

ELOVL1 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q9BW60
Other Accession	NP_073732.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**32663**
Antigen Region	**1-30**

ELOVL1 Antibody (N-term) - Additional Information

Gene ID 64834

Other Names
Elongation of very long chain fatty acids protein 1, 3-keto acyl-CoA synthase ELOVL1, ELOVL fatty acid elongase 1, ELOVL FA elongase 1, Very-long-chain 3-oxoacyl-CoA synthase 1, ELOVL1, SSC1

Target/Specificity
This ELOVL1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human ELOVL1.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
ELOVL1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ELOVL1 Antibody (N-term) - Protein Information

Name ELOVL1 (HGNC:14418)

Synonyms SSC1

Function Catalyzes the first and rate-limiting reaction of the four reactions that constitute the long-chain fatty acids elongation cycle (PubMed:29496980, PubMed:30487246). 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 and monounsaturated 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 (PubMed:20937905). Indirectly inhibits RPE65 via production of VLCFAs.

Cellular Location
Endoplasmic reticulum membrane {ECO:0000255|HAMAP-Rule:MF_03201, ECO:0000269|PubMed:20937905, ECO:0000269|PubMed:30487246}; Multi-pass membrane protein {ECO:0000255|HAMAP-Rule:MF_03201}

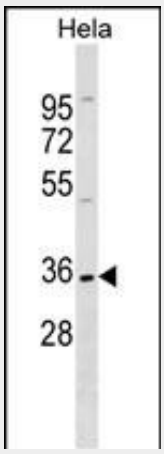
Tissue Location
Ubiquitous.

ELOVL1 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ELOVL1 Antibody (N-term) - Images



ELOVL1 Antibody (N-term) (Cat. #AP17913a) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the ELOVL1 antibody detected the ELOVL1 protein (arrow).

ELOVL1 Antibody (N-term) - Background

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 (By similarity).

ELOVL1 Antibody (N-term) - References

Ohno, Y., et al. Proc. Natl. Acad. Sci. U.S.A. 107(43):18439-18444(2010)
Ofman, R., et al. EMBO Mol Med 2(3):90-97(2010)
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :
Lehner, R., et al. Prog. Lipid Res. 35(2):169-201(1996)