

ELOVL2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP9191a**Specification**

ELOVL2 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q9NXB9](#)**ELOVL2 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 54898**Other Names**

Elongation of very long chain fatty acids protein 2, 3-keto acyl-CoA synthase ELOVL2, ELOVL fatty acid elongase 2, ELOVL FA elongase 2, Very-long-chain 3-oxoacyl-CoA synthase 2, ELOVL2, SSC2

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP9191a](/products/AP9191a) was selected from the N-term region of human ELOVL2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ELOVL2 Antibody (N-term) Blocking Peptide - Protein Information**Name** ELOVL2 {ECO:0000255|HAMAP-Rule:MF_03202}**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 polyunsaturated very long chain fatty acid (C20- and C22-PUFA), acting specifically toward polyunsaturated acyl-CoA with the higher activity toward C20:4(n-6) acyl-CoA. May participate in the production of polyunsaturated VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators.

Cellular Location

Endoplasmic reticulum membrane {ECO:0000255|HAMAP-Rule:MF_03202,

ECO:0000269|PubMed:20937905}; Multi- pass membrane protein
{ECO:0000255|HAMAP-Rule:MF_03202}

Tissue Location

Liver and testis..

ELOVL2 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ELOVL2 Antibody (N-term) Blocking Peptide - Images**ELOVL2 Antibody (N-term) Blocking Peptide - Background**

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).

ELOVL2 Antibody (N-term) Blocking Peptide - References

Illig,T., et.al., Nat. Genet. 42 (2), 137-141 (2010)Tanaka,T., et.al., PLoS Genet. 5 (1), E1000338 (2009)