

**ELOVL2 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP13461b****Specification**

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**ELOVL2 Antibody (C-term) Blocking peptide - Product Information**Primary Accession [Q9NXB9](#)**ELOVL2 Antibody (C-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 AP13461b was selected from the C-term region of 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 (C-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 (C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**ELOVL2 Antibody (C-term) Blocking peptide - Images****ELOVL2 Antibody (C-term) Blocking peptide - Background**

ELOVL2 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).

**ELOVL2 Antibody (C-term) Blocking peptide - References**

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Illig, T., et al. Nat. Genet. 42(2):137-141(2010)Tanaka, T., et al. PLoS Genet. 5 (1), E1000338 (2009) :Lu, Y., et al. J. Lipid Res. 49(12):2582-2589(2008)Kobayashi, T., et al. FEBS Lett. 581(17):3157-3163(2007)