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ELOVL5 Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP12826b

Specification

ELOVL5 Antibody (C-term) Blocking peptide - Product Information

Primary Accession Q9NYP7

ELOVL5 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 60481

Other Names
Elongation of very long chain fatty acids protein 5, 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, ELOVL5, ELOVL2

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.

ELOVL5 Antibody (C-term) Blocking peptide - Protein Information

Name ELOVL5 {ECO:0000255|HAMAP-Rule:MF_03205}

Synonyms ELOVL2

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 acts specifically toward polyunsaturated acyl-CoA with the higher activity toward C18:3(n-6) acyl-CoA. May participate in the production of monounsaturated and of polyunsaturated VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators (By similarity) (PubMed:10970790, PubMed:20937905). In conditions where the essential linoleic and alpha linoleic fatty acids are lacking it is also involved in the synthesis of Mead acid from oleic acid (By similarity).

Cellular Location
Endoplasmic reticulum membrane {ECO:0000255|HAMAP-Rule:MF_03205,

ECO:0000269|PubMed:20937905}; Multi- pass membrane protein {ECO:0000255|HAMAP-Rule:MF_03205}. Cell projection, dendrite {ECO:0000255|HAMAP-Rule:MF_03205, ECO:0000269|PubMed:25065913}. Note=In Purkinje cells, the protein localizes to the soma and proximal portion of the dendritic tree {ECO:0000255|HAMAP-Rule:MF_03205, ECO:0000269|PubMed:25065913}

Tissue Location
Ubiquitous. Highly expressed in the adrenal gland and testis. Weakly expressed in prostate, lung and brain. Expressed in the cerebellum.

ELOVL5 Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

ELOVL5 Antibody (C-term) Blocking peptide - Images

ELOVL5 Antibody (C-term) Blocking peptide - Background

ELOVL5 plays a role in elongation of long-chainpolyunsaturated fatty acids (Leonard et al., 2000 [PubMed10970790]).

ELOVL5 Antibody (C-term) Blocking peptide - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Meguro, A., et al. Ophthalmology 117(7):1331-1338(2010)Lu, Y., et al. J. Lipid Res. 49(12):2582-2589(2008)Lamesch, P., et al. Genomics 89(3):307-315(2007)Olsen, J.V., et al. Cell 127(3):635-648(2006)