

ELOVL4 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP16326b**Specification**

ELOVL4 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [O9GZR5](#)**ELOVL4 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 6785

Other Names

Elongation of very long chain fatty acids protein 4, 3-keto acyl-CoA synthase ELOVL4, ELOVL fatty acid elongase 4, ELOVL FA elongase 4, Very-long-chain 3-oxoacyl-CoA synthase 4, ELOVL4

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.

ELOVL4 Antibody (C-term) Blocking Peptide - Protein Information

Name ELOVL4 {ECO:0000255|HAMAP-Rule:MF_03204}

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 very long chain saturated (VLC-SFA) and polyunsaturated (PUFA) fatty acids that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators. May play a critical role in early brain and skin development.

Cellular Location

Endoplasmic reticulum membrane {ECO:0000255|HAMAP-Rule:MF_03204, ECO:0000269|PubMed:16036915, ECO:0000269|PubMed:20937905}; Multi-pass membrane protein {ECO:0000255|HAMAP-Rule:MF_03204}

Tissue Location

Expressed in the retina and at much lower level in the brain. Ubiquitous, highest expression in thymus, followed by testis, small intestine, ovary, and prostate. Little or no expression in heart, lung, liver, or leukocytes.

ELOVL4 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ELOVL4 Antibody (C-term) Blocking Peptide - Images

ELOVL4 Antibody (C-term) Blocking Peptide - Background

ELOVL4 is a membrane-bound protein which is a member of the ELO family, proteins which participate in the biosynthesis of fatty acids. Consistent with the expression of the encoded protein in photoreceptor cells of the retina, mutations and small deletions in this gene are associated with Stargardt-like macular dystrophy (STGD3) and autosomal dominant Stargardt-like macular dystrophy (ADMD), also referred to as autosomal dominant atrophic macular degeneration.

ELOVL4 Antibody (C-term) Blocking Peptide - References

Kasperaviciute, D., et al. Brain 133 (PT 7), 2136-2147 (2010) : Vasireddy, V., et al. Prog Retin Eye Res 29(3):191-207(2010) Gu, H., et al. Zhonghua Yan Ke Za Zhi 46(2):125-128(2010) DeAngelis, M.M., et al. Arch. Ophthalmol. 125(1):49-54(2007) McMahon, A., et al. Mol. Vis. 13, 258-272 (2007) :