

HELO1 / ELOVL5 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS10977**Specification**

HELO1 / ELOVL5 Antibody (Internal) - Product Information

Application	IHC
Primary Accession	Q9NYP7
Reactivity	Human, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35kDa KDa

HELO1 / ELOVL5 Antibody (Internal) - Additional Information**Gene ID** 60481**Other Names**

Elongation of very long chain fatty acids protein 5, 2.3.1.199, 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

Target/Specificity

Human ELOVL5. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except PLAGL1 (39%), PLAG1 (39%).

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

HELO1 / ELOVL5 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

HELO1 / ELOVL5 Antibody (Internal) - 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.

Volume

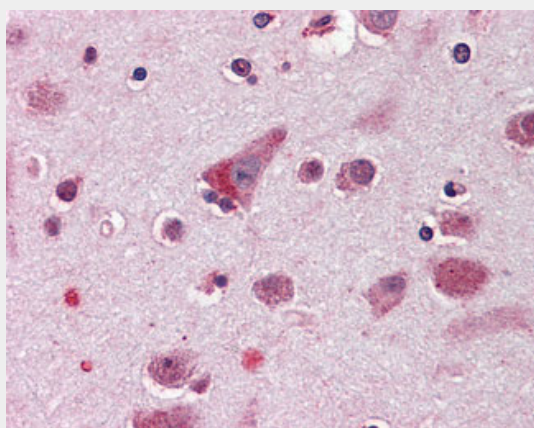
50 µl

HELO1 / ELOVL5 Antibody (Internal) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

HELO1 / ELOVL5 Antibody (Internal) - Images



Anti-ELOVL5 antibody ALS10977 IHC of human brain, cortex.

HELO1 / ELOVL5 Antibody (Internal) - Background

Condensing enzyme that catalyzes the synthesis of monounsaturated and of polyunsaturated very long chain fatty acids. Acts specifically toward polyunsaturated acyl-CoA with the higher activity toward C18:3(n-6) acyl-CoA.

HELO1 / ELOVL5 Antibody (Internal) - References

Leonard A.E.,et al.Biochem. J. 350:765-770(2000).
Suzuki T.,et al.Submitted (JAN-2001) to the EMBL/GenBank/DDBJ databases.
Wiemann S.,et al.Genome Res. 11:422-435(2001).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Totoki Y.,et al.Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases.