

ELOVL7 Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS13559**Specification**

ELOVL7 Antibody (N-Terminus) - Product Information

Application	IF, WB
Primary Accession	A1L3X0
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33kDa KDa

ELOVL7 Antibody (N-Terminus) - Additional Information**Gene ID** 79993**Other Names**

Elongation of very long chain fatty acids protein 7, 2.3.1.199, 3-keto acyl-CoA synthase ELOVL7, ELOVL fatty acid elongase 7, ELOVL FA elongase 7, Very-long-chain 3-oxoacyl-CoA synthase 7, ELOVL7

Target/Specificity

Human ELOVL7

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

ELOVL7 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

ELOVL7 Antibody (N-Terminus) - Protein Information**Name** ELOVL7 {ECO:0000255|HAMAP-Rule:MF_03207}**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 with higher activity toward C18 acyl-CoAs, especially C18:3(n-3) acyl-CoAs and C18:3(n-6)-CoAs. Also active toward C20:4-, C18:0-, C18:1-, C18:2- and C16:0-CoAs, and weakly toward C20:0-CoA. Little or no activity toward C22:0-, C24:0-, or C26:0-CoAs. May participate in the production of saturated and 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_03207, ECO:0000269|PubMed:20937905}; Multi-pass membrane protein {ECO:0000255|HAMAP-Rule:MF_03207}

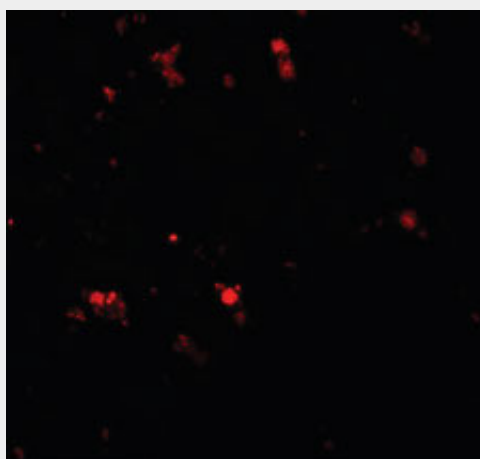
Tissue Location

Expressed in most tissues except heart and skeletal muscle.

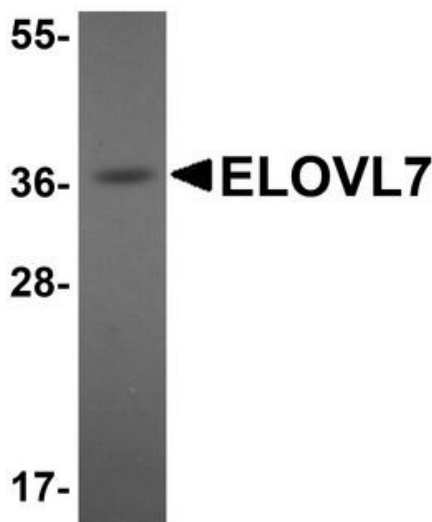
ELOVL7 Antibody (N-Terminus) - Protocols

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](#)

ELOVL7 Antibody (N-Terminus) - Images

Immunofluorescence of ELOVL7 in human liver tissue with ELOVL7 antibody at 20 ug/ml.



Western blot analysis of ELOVL7 in human liver tissue lysate with ELOVL7 antibody at 1 ug/ml.

ELOVL7 Antibody (N-Terminus) - Background

Condensing enzyme that catalyzes the synthesis of saturated and polyunsaturated very long chain fatty acids. Highest activity toward C18 acyl-CoAs, especially C18:3(n-3) acyl-CoAs and C18:3(n-6)-CoAs. Also active toward C20:4-, C18:0-, C18:1-, C18:2- and C16:0-CoAs, and weakly toward C20:0-CoA. Little or no activity toward C22:0-, C24:0-, or C26:0-CoAs.

ELOVL7 Antibody (N-Terminus) - References

Tamura K.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Tamura K.,et al.Cancer Res. 69:8133-8140(2009).
Ohno Y.,et al.Proc. Natl. Acad. Sci. U.S.A. 107:18439-18444(2010).