

Anti-ELOVL5 Rabbit Monoclonal Antibody
Catalog # ABO16549**Specification****Anti-ELOVL5 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IF, ICC
Primary Accession	Q9NYP7
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

Description

Anti-ELOVL5 Rabbit Monoclonal Antibody . Tested in WB, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.

Anti-ELOVL5 Rabbit Monoclonal Antibody - Additional Information

Gene ID 60481

Other Names

Very long chain fatty acid elongase 5 {ECO:0000255|HAMAP-Rule:MF_03205}, 2.3.1.199 {ECO:0000255|HAMAP-Rule:MF_03205, ECO:0000269|PubMed:10970790, ECO:0000269|PubMed:19575253, ECO:0000269|PubMed:20937905}, 3-keto acyl-CoA synthase ELOVL5 {ECO:0000255|HAMAP-Rule:MF_03205}, ELOVL fatty acid elongase 5 {ECO:0000255|HAMAP-Rule:MF_03205}, ELOVL FA elongase 5 {ECO:0000255|HAMAP-Rule:MF_03205}, Elongation of very long chain fatty acids protein 5 {ECO:0000255|HAMAP-Rule:MF_03205}, Fatty acid elongase 1, hELO1, Very long chain 3-ketoacyl-CoA synthase 5 {ECO:0000255|HAMAP-Rule:MF_03205}, Very long chain 3-oxoacyl-CoA synthase 5 {ECO:0000255|HAMAP-Rule:MF_03205}, ELOVL5 {ECO:0000255|HAMAP-Rule:MF_03205}, ELOVL2

Calculated MW

35 kDa KDa

Application Details

WB 1:500-1:2000
ICC/IF 1:50-1:200

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human ELOVL5

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term

storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Anti-ELOVL5 Rabbit Monoclonal Antibody - 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

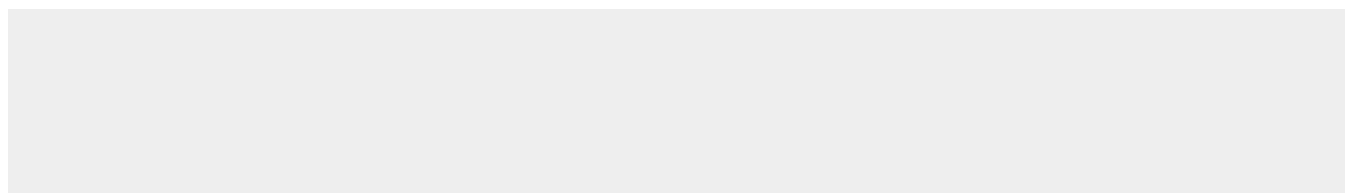
Ubiquitous. Highly expressed in the adrenal gland and testis. Weakly expressed in prostate, lung and brain. Expressed in the cerebellum.

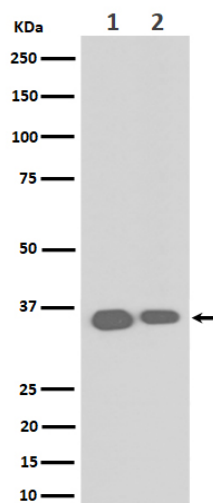
Anti-ELOVL5 Rabbit Monoclonal Antibody - Protocols

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](#)

Anti-ELOVL5 Rabbit Monoclonal Antibody - Images





Western blot analysis of ELOVL5 expression in (1) HeLa cell lysate; (2) RAW 264.7 cell lysate.