

ARG42990
anti-ELOVL5 antibodyPackage: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ELOVL5
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ELOVL5
Species	Human
Immunogen	Synthetic peptide of Human ELOVL5.
Conjugation	Un-conjugated
Alternate Names	Very-long-chain 3-oxoacyl-CoA synthase 5; dJ483K16.1; EC 2.3.1.199; SCA38; HELO1; ELOVL fatty acid elongase 5; hELO1; Fatty acid elongase 1; 3-keto acyl-CoA synthase ELOVL5; Elongation of very long chain fatty acids protein 5; ELOVL FA elongase 5

Application Instructions

Application table	Application	Dilution
	FACS	1:20
	ICC/IF	1:20
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HeLa	
Observed Size	~ 35 kDa	

Properties

Form	Liquid
Purification	Affinity purified.
Buffer	50 mM Tris-Glycine (pH 7.4), 150 mM NaCl, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.
Preservative	0.01% Sodium azide
Stabilizer	40% Glycerol and 0.05% BSA
Concentration	Batch dependent

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	ELOVL5
Gene Full Name	ELOVL fatty acid elongase 5
Background	This gene belongs to the ELO family. It is highly expressed in the adrenal gland and testis, and encodes a multi-pass membrane protein that is localized in the endoplasmic reticulum. This protein is involved in the elongation of long-chain polyunsaturated fatty acids. Mutations in this gene have been associated with spinocerebellar ataxia-38 (SCA38). Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2014]
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). [UniProt]
Calculated Mw	35 kDa
Cellular Localization	Endoplasmic reticulum membrane; Multi-pass membrane protein. Cell projection, dendrite. Note=In Purkinje cells, the protein localizes to the soma and proximal portion of the dendritic tree. [UniProt]

Images



ARG42990 anti-ELOVL5 antibody WB image

Western blot: HeLa cell lysate stained with ARG42990 anti-ELOVL5 antibody at 1:1000 dilution.