

Rabbit anti-Human, Mouse ELOVL4 Polyclonal Antibody | anti-ELOVL4 antibody

ELOVL4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321136	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

ELOVL4; Polyclonal Antibody; ELOVL4 Antibody; 3-keto acyl-CoA synthase ELOVL4; ADMD; Cancer/testis antigen 118; CT118; Elongation of very long chain fatty acids (FEN1/Elo2 SUR4/Elo3 yeast) like 4; Elongation of very long chain fatty acids like 4; Elongation of very long chain fatty acids protein 4; ELOV L4; ELOV4_HUMAN; ELOVL 4; FLJ17667; FLJ92876; Stargardt disease 3; Stargardt disease 3 autosomal dominant; STGD 2; STGD 3; STGD2; STGD3; anti-ELOVL4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	ELOVL4 antibody detects endogenous levels of ELOVL4
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	314
Applicable Applications for anti-ELOVL4 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ELOVL4
Subcellular Location	Endoplasmic Reticulum Membrane.
Tissue Specificity	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.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA321136 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis on HeLa cell lysate using ELOVL4 Antibody, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ELOVL4 antibody	Description: ELOVL4 Involved in the biosynthesis of very long chain fatty acids. Seems to represent a photoreceptor-specific component of the fatty acid elongation system residing on the endoplasmic reticulum. May be implicated in docosahexaenoic acid (DHA) biosynthesis, which requires dietary consumption of the essential alpha-linolenic acid and a subsequent series of three elongation steps. Function: Catalyzes the first and rate-limiting reaction of the four 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 specifically elongates C24:0 and C26:0 acyl-CoAs. May participate in the production of saturated and monounsaturated VLCFAs of different chain lengths 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. Subunit Structure: Oligomer. Similarity: The C-terminal di-lysine motif may confer endoplasmic reticulum localization. Belongs to the ELO family. ELOVL4 subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	12232379
NCBI GeneID	6785
NCBI Accession #	NP_073563.1
NCBI GenBank Nucleotide #	NM_022726.3
UniProt Accession #	Q9GZR5; Q5TCS2; Q86YJ1; Q9H139; B2R6B5
Molecular Weight	Observed: 37 kDa Predicted: 37 kDa
NCBI Official Full Name	elongation of very long chain fatty acids protein 4
NCBI Official Synonym Full Names	ELOVL fatty acid elongase 4
NCBI Official Symbol	ELOVL4
NCBI Official Synonym Symbols	ADMD; CT118; ISQMR; SCA34; STGD2; STGD3
NCBI Protein Information	elongation of very long chain fatty acids protein 4
UniProt Protein Name	Elongation of very long chain fatty acids protein 4
UniProt Gene Name	ELOVL4
UniProt Synonym Gene Names	ELOVL FA elongase 4

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/elovl4-antibody-immuncytochemistry-immunofluorescence-western-blot-elisa/321136>