

Product Specification Sheet

Mouse Elongation of very long chain fatty acids protein 1 (Elovl1) Antibodiesul

<input type="checkbox"/> Cat. # AB-23002-A	Rabbit Anti-Mouse ELOVL1 IgG (aff pure)	SIZE: 100 ug
<input type="checkbox"/> Cat. # AB-23002-P	Mouse ELOVL1 Control/blocking peptide	SIZE: 100 ug

Protein Function Involved in the biosynthesis of C26 fatty acids and sphingolipids. Condensing enzyme that catalyzes the synthesis of both saturated and monounsaturated very long chain fatty acids. Exhibits activity toward saturated C18 to C26 acyl-CoA substrates, with the highest activity towards C22:0 acyl-CoA. Important for saturated C24:0 and monounsaturated C24:1 sphingolipid synthesis. Important for sphingolipid biosynthesis.

Subcellular Location Endoplasmic reticulum membrane; Multi-pass membrane protein

Protein name Elongation of very long chain fatty acids protein 1, 3-keto acyl-CoA synthase Elovl1, ELOVL fatty acid elongase 1, Very-long-chain 3-oxoacyl-CoA synthase 1

Gene name ELOVL1

Synonyms: Ssc1

Similarity Belongs to the ELO family.

Histochemistry & Immunofluorescence: not tested. We recommend the use of affinity pure antibody at 2-20 ug/ml.

Specificity & Cross-reactivity

Mouse AB-23002-P peptide sequences are found to be 89% conserved in Rat and 85% in Human. Antibody reactivity has not been established between species. The AB-23002-P control peptides, because of its low mol. Wt (<3 kDa), is not suitable for Western. It should be used for ELISA or antibody blocking experiments (use 5-10 ug control peptide per 1 ug of aff pure IgG or 1 ul antiserum) to confirm antibody specificity.

General References: Tvrdik P., (2000). J. Cell Biol. 149:707-718

**This product is for In vitro research use only.*

Source of Antigen and Antibodies

Antigen	27-aa peptides of Mouse Elongation of very long chain fatty acids protein 1 (ELOVL1); (protein accession # Q9JLJ5). (designated AB-23002-P or control peptides) conjugated to KLH; Epitope location; C-terminal, Di-lysine motif.
Ab Host/type	Rabbit, polyclonal Aff pure IgG (cat # AB-23002-A) purified over the antigen column
2-ab	Cat # 20320, goat anti-rabbit IgG-HRP (AP, biotin, FITC conjugates also available
-ve control	# 20009-1, Rabbit (non-immune) IgG, purified, suitable for ELISA, Western, IHC as -ve control

Related materials available from ADI

Antibodies:

ReadyBlot **Kidney Protein Explorer**-Study distribution of protein in various regions of the Mouse/rat kidney using the pre-made protein blots; Western blot recycling kit-Use the same blot for WNK1-4.

AB-23002-A-P 130718VP

Form & Storage of Antibodies/Peptide Control

Affinity pure IgG

- 100 ug/100ul solution lyophilized powder

Supplied in **Buffer:** PBS+0.1% BSA

Reconstitute powder in PBS at 1mg/ml

Control/blocking peptide

- 100 ug/100 ul solution lyophilized powder

Supplied in Buffer: PBS pH 7.5,

Reconstitute powder in PBS at 1 mg/ml.

Storage

Short-term: unopened, undiluted liquid vials at 20°C and powder at 4°C or -20°C..

Long-term: at -20°C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20°C or below.

Shipping: 4°C for solutions and room temp for powder

Recommended Usage

Western Blotting (1:1K-5K for neat serum and 1-10 ug/ml for affinity pure using Chemiluminescence technique).

ELISA (1:10K-1:100K; using 50-100 ng of control peptide/well).