

ELOVL2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP9191a

Product Information

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| Application | WB, IHC-P, FC, E |
| Primary Accession | Q9NXB9 |
| Other Accession | Q9JLJ4 |
| Reactivity | Human |
| Predicted | Mouse |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Clone Names | RB23770 |
| Calculated MW | 34585 |
| Antigen Region | 1-27 |

Additional Information

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| Gene ID | 54898 |
| Other Names | Elongation of very long chain fatty acids protein 2, 3-keto acyl-CoA synthase ELOVL2, ELOVL fatty acid elongase 2, ELOVL FA elongase 2, Very-long-chain 3-oxoacyl-CoA synthase 2, ELOVL2, SSC2 |
| Target/Specificity | This ELOVL2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-27 amino acids from the N-terminal region of human ELOVL2. |
| Dilution | WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration. |
| Format | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| Storage | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Precautions | ELOVL2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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| Name | ELOVL2 {ECO:0000255 HAMAP-Rule:MF_03202} |
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| 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 catalyzes the synthesis of polyunsaturated very long chain fatty acid (C20- and C22-PUFA), acting specifically toward polyunsaturated acyl-CoA with the higher activity toward C20:4(n-6) acyl-CoA. May participate in the production of 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_03202, ECO:0000269 PubMed:20937905}; Multi- pass membrane protein {ECO:0000255 HAMAP-Rule:MF_03202} |
| Tissue Location | Liver and testis.. |

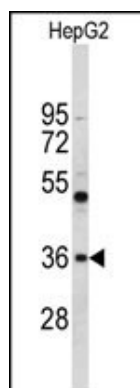
Background

ELOVL2 could be implicated in tissue-specific synthesis of very long chain fatty acids and sphingolipids. This protein may catalyze one or both of the reduction reaction in fatty acid elongation, i.e., conversion of beta-ketoacyl CoA to beta-hydroxyacyl CoA or reduction of trans-2-enoyl CoA to the saturated acyl CoA derivative (By similarity).

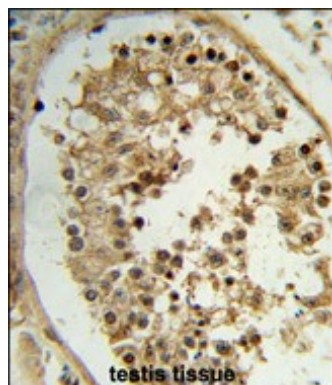
References

Illig,T., et.al., Nat. Genet. 42 (2), 137-141 (2010)
Tanaka,T., et.al., PLoS Genet. 5 (1), E1000338 (2009)

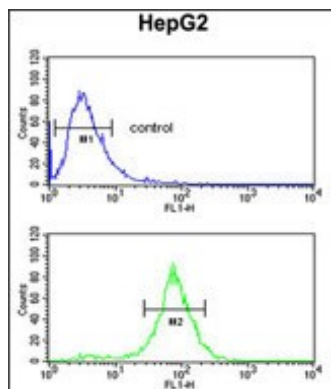
Images



Western blot analysis of ELOVL2 Antibody (N-term) (Cat. #AP9191a) in HepG2 cell line lysates (35ug/lane). ELOVL2 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human testis tissue reacted with ELOVL2 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



ELOVL2 Antibody (N-term) (Cat. #AP9191a) flow cytometric analysis of HepG2 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Citations

- [Ectopic Myoglobin Expression Is Associated with a Favourable Outcome in Head and Neck Squamous Cell Carcinoma Patients.](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.