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# ELOV3 Rabbit pAb

Catalog # AP96797

## Product Information

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| **Application** | WB |
| **Primary Accession** | Q9HB03 |
| **Other Accession** | Q9HB03 |
| **Reactivity** | Mouse |
| **Predicted** | Rat, Human, Dog |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 31500 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human ELOV3 |
| **Epitope Specificity** | 101-200/270 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SIMILARITY** | Belongs to the ELO family. |
| **Post-translational modifications** | N-Glycosylated. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | This gene encodes a protein that belongs to the GNS1/SUR4 family. Members of this family play a role in elongation of long chain fatty acids to provide precursors for synthesis of sphingolipids and ceramides. [provided by RefSeq, Jul 2013]. |

## Additional Information

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| **Gene ID** | 83401 |
| **Other Names** | ELOV3_HUMAN; ELOVL3; 3-keto acyl-CoA synthase ELOVL3; Cold-inducible glycoprotein of 30 kDa; ELOVL fatty acid elongase 3 (ELOVL FA elongase 3); Elongation of very long chain fatty acids protein 3; Very long chain 3-ketoacyl-CoA synthase 3; Very long chain 3-oxoacyl-CoA synthase 3; 2.3.1.199; CIG30; ELOVL fatty acid elongase 3; elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 3 |
| **Dilution** | WB=1:500-2000 |
| **Storage** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

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| **Name** | ELOVL3 {ECO:0000255\|HAMAP-Rule:MF_03203} |
| **Synonyms** | CIG30 |
| **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 exhibits activity toward saturated and unsaturated acyl-CoA substrates with higher activity toward C18 acyl-CoAs, especially C18:0 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. |
| **Cellular Location** | Endoplasmic reticulum membrane {ECO:0000255\|HAMAP-Rule:MF_03203, ECO:0000269\|PubMed:20937905}; Multi- pass membrane protein {ECO:0000255\|HAMAP-Rule:MF_03203} |
| **Tissue Location** | Testis.. |

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