

ELOV3 Rabbit pAb

Catalog # AP96797

Product Information

Application	WB
Primary Accession	Q9HB03
Other Accession	Q9HB03
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

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

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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