

ELOVL3 Antibody(C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP19871b

Product Information

Application WB, E **Primary Accession Q9HB03** Other Accession NP 689523.1 Reactivity Human Host Rabbit Clonality Polyclonal Isotype Rabbit IgG **Clone Names** RB41614 **Calculated MW** 31500 241-270 **Antigen Region**

Additional Information

Gene ID 83401

Other Names Elongation of very long chain fatty acids protein 3, 3-keto acyl-CoA synthase

ELOVL3, Cold-inducible glycoprotein of 30 kDa, ELOVL fatty acid elongase 3, ELOVL FA elongase 3, Very-long-chain 3-oxoacyl-CoA synthase 3, ELOVL3,

CIG30

Target/Specificity This ELOVL3 antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 241-270 amino acids from the

C-terminal region of human ELOVL3.

Dilution WB~~1:1000 E~~Use at an assay dependent concentration.

Format Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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 ELOVL3 Antibody(C-term) is for research use only and not for use in

diagnostic or therapeutic procedures.

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..

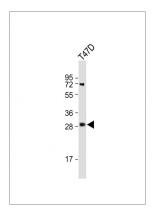
Background

ELOVL3 plays a role in fatty acid chain elongation and formation of neutral lipids required for skin barrier function (Westerberg et al., 2004 [PubMed 14581464]).

References

Kobayashi, T., et al. FEBS Lett. 581(17):3157-3163(2007) Lamesch, P., et al. Genomics 89(3):307-315(2007) Westerberg, R., et al. J. Biol. Chem. 279(7):5621-5629(2004) Monne, M., et al. Eur. J. Biochem. 263(1):264-269(1999) Lehner, R., et al. Prog. Lipid Res. 35(2):169-201(1996)

Images



All lanes: Anti-ELOVL3 Antibody(C-term) at 1:500 dilution Lane 1: T47D whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Observed band size: 31 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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