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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
Antigen Region	241-270

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..

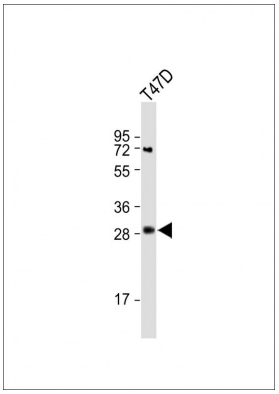
Background

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.