

Product Name: KO-Validated ELOVL5 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00131

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 35.3kDa

Antigen Information

Gene Name	ELOVL5 ELOVL5; ELOVL Fatty Acid Elongase 5; HELO1; DJ483K16.1; ELOVL Family Member 5, Elongation Of Long Chain Fatty Acids (FEN1/Elo2, SUR4/Elo3-Like, Yeast); Elongation Of Very Long Chain Fatty Acids Protein 5; Very Long Chain 3-Ketoacyl-CoA Synthase 5; Very Long Chain 3-Oxoacyl-CoA Synthase 5; 3-Keto Acyl-CoA Synthase ELOVL5; Spinocerebellar Ataxia 38; Fatty Acid Elongase 1; ELOVL FA Elongase 5; SCA38; Homolog Of Yeast Long Chain Polyunsaturated Fatty Acid Elongation Enzyme; EC 2.3.1.199; ELOVL2
Alternative Names	
Gene ID	60481.0
SwissProt ID	Q9NYP7
Immunogen	A synthesized peptide derived from human ELOVL5

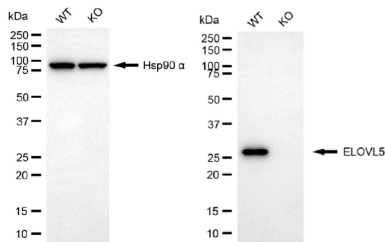
Background

This gene belongs to the ELO family. It is highly expressed in the adrenal gland and testis, and encodes a multi-pass membrane protein that is localized in the endoplasmic reticulum. This protein is involved in the elongation of long-chain polyunsaturated fatty acids. Mutations in this gene have been associated with spinocerebellar ataxia-38 (SCA38). Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2014]

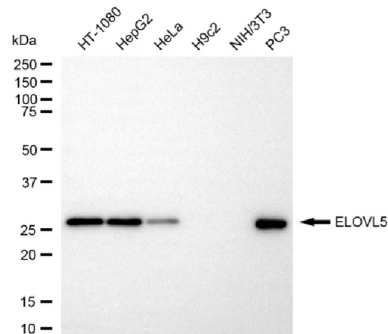
Research Area

Cardiovascular,Signal Transduction,Metabolism

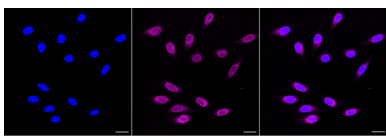
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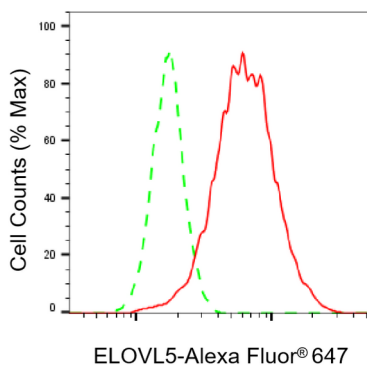
Western blotting analysis using ELOVL5 antibody (KVA00131). ELOVL5 expression in wild-type (WT) and ELOVL5 knockout (KO) 293T cells with 20 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with ELOVL5 antibody (KVA00131, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using ELOVL5 antibody (KVA00131). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ELOVL5 antibody (KVA00131, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with ELOVL5 antibody (KVA00131, 1:1,000). Nuclei were stained blue with DAPI; ELOVL5 was stained magenta with Alexa Fluor[®] 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 μ m.



Flow cytometric analysis of ELOVL5 expression in HepG2 cells using ELOVL5 antibody (KVA00131, 1:2,000). Green, isotype control; red, ELOVL5.