Product Name: ELOVL4 Rabbit Polyclonal Antibody
Catalog #: APRab10425

Summary

Production Name	ELOVL4 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	ELOVL4
Alternative Names	ELOVL4; Elongation of very long chain fatty acids protein 4; 3-keto acyl-CoA synthase ELOVL4; ELOVL fatty acid elongase 4; ELOVL FA elongase 4
Gene ID	6785.0
SwissProt ID	Q9GZR5.The antiserum was produced against synthesized peptide derived from human ELOVL4. AA range:41-90

Application

Dilution Ratio	WB 1:500 - 1:2000. ELISA: 1:40000.
Molecular Weight	37kD

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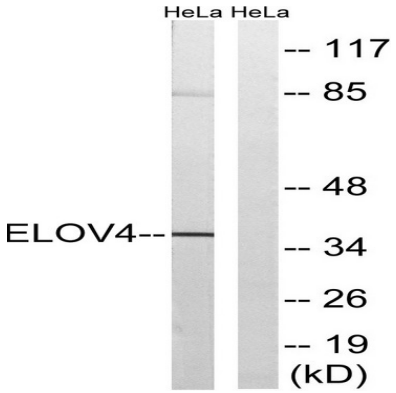
Background

This gene encodes a membrane-bound protein which is a member of the ELO family, proteins which participate in the biosynthesis of fatty acids. Consistent with the expression of the encoded protein in photoreceptor cells of the retina, mutations and small deletions in this gene are associated with Stargardt-like macular dystrophy (STGD3) and autosomal dominant Stargardt-like macular dystrophy (ADMD), also referred to as autosomal dominant atrophic macular degeneration. [provided by RefSeq, Jul 2008],disease:Defects in ELOVL4 are the cause of macular dystrophy autosomal dominant chromosome 6-linked (ADMD) [MIM:600110]. A form of macular degeneration characterized by decreased visual acuity, macular atrophy and extensive fundus flecks.,disease:Defects in ELOVL4 are the cause of Stargardt disease type 3 (STGD3) [MIM:600110]. STGD is one of the most frequent causes of macular degeneration in childhood. It is characterized by macular dystrophy with juvenile-onset, rapidly progressive course, alterations of the peripheral retina, and subretinal deposition of lipofuscin-like material. STGD3 inheritance is autosomal dominant.,domain:The di-lysine motif confers endoplasmic reticulum localization for type I membrane proteins.,function:Involved in the biosynthesis of very long chain fatty acids. Seems to represent a photoreceptor-specific component of the fatty acid elongation system residing on the endoplasmic reticulum. May be implicated in docosahexaenoic acid (DHA) biosynthesis, which requires dietary consumption of the essential alpha-linolenic acid and a subsequent series of three elongation steps. May be involved in one of these three elongation steps.,online information:Retina International's Scientific Newsletter,similarity:Belongs to the ELO family.,tissue specificity:Expressed in the retina and at much lower level in the brain.,

Research Area

Image Data



Western blot analysis of lysates from HeLa cells, using ELOVL4 Antibody. The lane on the right is blocked with the synthesized peptide.

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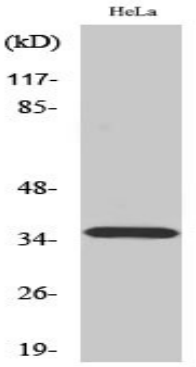

Western Blot analysis of various cells using ELOVL4 Polyclonal Antibody diluted at 1： 1000

Note

For research use only.