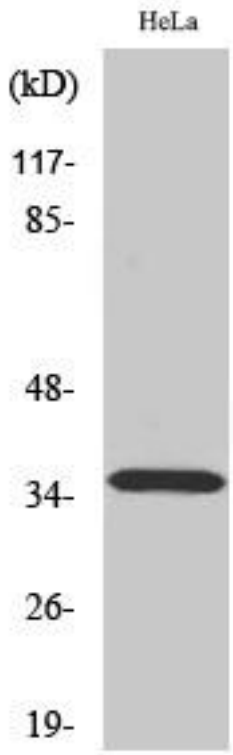
ELOVL4 Monoclonal Antibody

Catalog No	YP-mAb-02629
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB
Gene Name	ELOVL4
Protein Name	Elongation of very long chain fatty acids protein 4
Immunogen	The antiserum was produced against synthesized peptide derived from human ELOVL4. AA range:41-90
Specificity	ELOVL4 Monoclonal Antibody detects endogenous levels of ELOVL4 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	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
Observed Band	37kD
Cell Pathway	Endoplasmic reticulum membrane ; Multi-pass membrane protein .
Tissue Specificity	Expressed in the retina and at much lower level in the brain. Ubiquitous, highest expression in thymus, followed by testis, small intestine, ovary, and prostate. Little or no expression in heart, lung, liver, or leukocates.
Function	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

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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using ELOVL4 Monoclonal Antibody