

Product datasheet for **AP05307PU-N**

ELOVL4 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western Blot (1:400 starting dilution).
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide derived from the human ELOV4 protein
Specificity:	This antibody detects ELOV4, expressed in the retina and at much lower level in the brain.
Formulation:	Phosphate buffered saline with 0.08% sodium azide State: Aff - Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Affinity chromatography
Conjugation:	Unconjugated
Storage:	Store the product (in aliquots) at -20 °C. Can be shipped at 2 - 8 °C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	ELOVL fatty acid elongase 4
Database Link:	Entrez Gene 6785 Human Q9GZR5



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Background:

Mutations in elongation of very long-chain fatty acid-4 (ELOVL4) are associated with autosomal dominant Stargardt-like macular degeneration (STGD3), with a five base-pair (5 bp) deletion mutation resulting in the loss of 51 carboxy-terminal amino acids and truncation of the protein. Elovl4 is expressed in the retina and only a limited number of mammalian other tissues, including skin, with unknown function. In a mouse model with the 5-bp deletion in the Elovl4 gene, mice in the heterozygous state (Elovl4(+ / del)) demonstrate progressive photoreceptor degeneration. Homozygous mice (Elovl4(del / del)) display scaly, wrinkled skin, have severely compromised epidermal permeability barrier function, and die within a few hours after birth. Lipid analyses of epidermis from Elovl4(del / del) mice show a decrease in very long-chain fatty acids (VLFAs) in both the ceramide/glucosylceramide and the free fatty-acid fractions. ELOVL4 is required for generating VLFA critical for epidermal barrier function.

Synonyms:

ADMD; FLJ17667; FLJ92876; STGD2; STGD3

Protein Families:

Transmembrane