

ELOV4. Rabbit Polyclonal Antibody , Human

Elongation of very long chain fatty acids protein 4, ELOVL4

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.

ORDERING INFORMATION

CATALOG NUMBER
X2087P

SIZE
100 µg

FORM
Unconjugated

HOST/CLONE
Rabbit

FORMULATION
Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION
1 mg/ml

ISOTYPE
IgG

APPLICATIONS
Western Blot

IMMUNOGEN

Synthetic peptide derived from the human ELOV4 protein

SPECIES REACTIVITY

Human

COMMENTS

Antibody can be used for Western blotting (1–5 µg/ml starting dilution). Optimal concentration should be evaluated by serial dilutions.

STORAGE

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

For research use only. Not for use in human diagnostics or therapeutics.

POSITIVE CONTROL/TISSUE EXPRESSION

Expressed in the retina and at much lower level in the brain.

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

REFERENCES

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