

# **ELOVL6 Polyclonal Antibody**

Catalog # AP69723

#### **Product Information**

Application WB Primary Accession Q9H5J4

Reactivity Human, Mouse, Rat

HostRabbitClonalityPolyclonalCalculated MW31376

#### **Additional Information**

**Gene ID** 79071

Other Names ELOVL6; FACE; LCE; Elongation of very long chain fatty acids protein 6; 3-keto

acyl-CoA synthase ELOVL6; ELOVL fatty acid elongase 6; ELOVL FA elongase 6; Fatty acid elongase 2; hELO2; Fatty acyl-CoA elongase; Long-chain fatty-acyl

elongase

Dilution WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other

applications.

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°C

#### **Protein Information**

Name ELOVL6 {ECO:0000255 | HAMAP-Rule:MF\_03206}

Synonyms FACE, LCE

**Function** Catalyzes the first and rate-limiting reaction of the four reactions that

constitute the long-chain fatty acids elongation cycle. This endoplasmic reticulum-bound enzymatic process allows the addition of 2 carbons to the chain of long- and very long-chain fatty acids (VLCFAs) per cycle. Condensing enzyme that elongates fatty acids with 12, 14 and 16 carbons with higher activity toward C16:0 acyl-CoAs. Catalyzes the synthesis of unsaturated C16 long chain fatty acids and, to a lesser extent, C18:0 and those with low desaturation degree. May participate in the production of saturated and monounsaturated VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid

mediators.

**Cellular Location** Endoplasmic reticulum membrane {ECO:0000255 | HAMAP-Rule:MF\_03206,

ECO:0000269 | PubMed:20937905}; Multi- pass membrane protein {ECO:0000255 | HAMAP-Rule:MF\_03206}

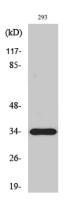
**Tissue Location** 

Ubiquitous..

## **Background**

Catalyzes the first and rate-limiting reaction of the four reactions that constitute the long-chain fatty acids elongation cycle. This endoplasmic reticulum-bound enzymatic process allows the addition of 2 carbons to the chain of long- and very long-chain fatty acids (VLCFAs) per cycle. Condensing enzyme that elongates fatty acids with 12, 14 and 16 carbons with higher activity toward C16:0 acyl-CoAs. Catalyzes the synthesis of unsaturated C16 long chain fatty acids and, to a lesser extent, C18:0 and those with low desaturation degree. May participate in the production of saturated and monounsaturated VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators.

### **Images**



Western Blot analysis of various cells using ELOVL6 Polyclonal Antibody

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.