

**ELOVL6 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP6524a****Specification**

---

**ELOVL6 Antibody (N-term) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">Q9H5J4</a>
Other Accession	<a href="#">Q920L6</a> , <a href="#">Q920L5</a> , <a href="#">Q5ZJR8</a>
Reactivity	Human, Mouse
Predicted	Chicken, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	31376
Antigen Region	32-58

**ELOVL6 Antibody (N-term) - Additional Information****Gene ID** 79071**Other Names**

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, Very-long-chain 3-oxoacyl-CoA synthase 6, ELOVL6, FACE, LCE

**Target/Specificity**

This ELOVL6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 32-58 amino acids from the N-terminal region of human ELOVL6.

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ELOVL6 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**ELOVL6 Antibody (N-term) - 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**

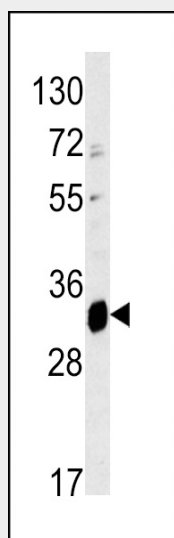
Ubiquitous..

**ELOVL6 Antibody (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

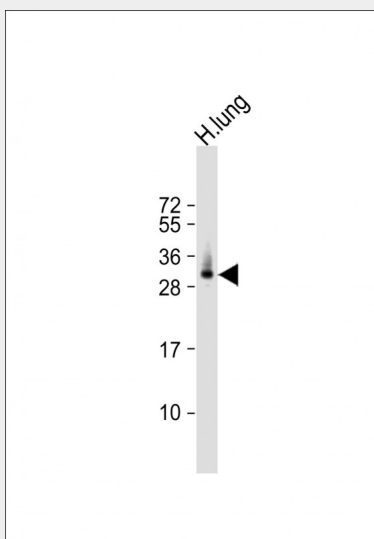
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**ELOVL6 Antibody (N-term) - Images**

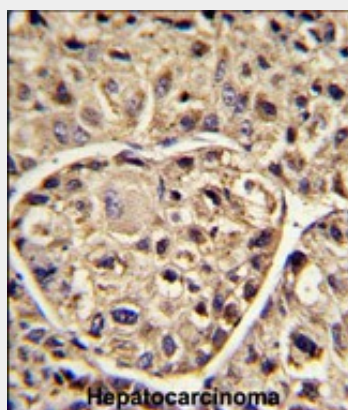


Western blot analysis of ELOVL6 antibody (N-term) (Cat.# AP6524a) in mouse liver tissue lysates

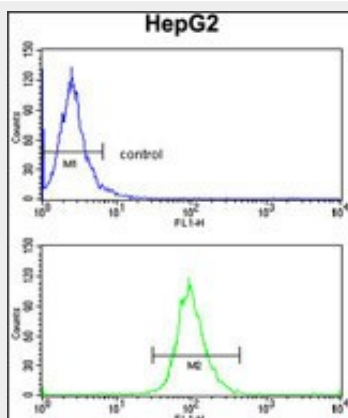
(35ug/lane). ELOVL6 (arrow) was detected using the purified Pab.



Anti-ELOVL6 Antibody (N-term) at 1:1000 dilution + human lung lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 31 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with ELOVL6 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



ELOVL6 Antibody (N-term) (Cat.#AP6524a) flow cytometry analysis of HepG2 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit

secondary antibodies were used for the analysis.

#### **ELOVL6 Antibody (N-term) - Background**

Fatty acid elongases (EC 6.2.1.3), such as ELOVL6, use malonyl-CoA as a 2-carbon donor in the first and rate-limiting step of fatty acid elongation.

#### **ELOVL6 Antibody (N-term) - References**

Lu, Y., J. Lipid Res. 49 (12), 2582-2589 (2008)