

# Anti-ELOVL5 Rabbit Monoclonal Antibody

Catalog # ABO16549

## Product Information

|                          |                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IF, ICC                                                                                                                 |
| <b>Primary Accession</b> | <a href="#">Q9NYP7</a>                                                                                                      |
| <b>Host</b>              | Rabbit                                                                                                                      |
| <b>Isotype</b>           | IgG                                                                                                                         |
| <b>Reactivity</b>        | Rat, Human, Mouse                                                                                                           |
| <b>Clonality</b>         | Monoclonal                                                                                                                  |
| <b>Format</b>            | Liquid                                                                                                                      |
| <b>Description</b>       | Anti-ELOVL5 Rabbit Monoclonal Antibody . Tested in WB, ICC/IF applications.<br>This antibody reacts with Human, Mouse, Rat. |

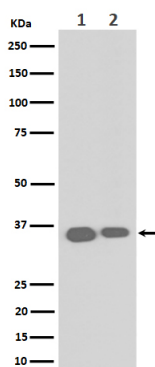
## Additional Information

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| <b>Gene ID</b>             | 60481                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Other Names</b>         | Very long chain fatty acid elongase 5 {ECO:0000255   HAMAP-Rule:MF_03205}, 2.3.1.199 {ECO:0000255   HAMAP-Rule:MF_03205}, ECO:0000269   PubMed:10970790, ECO:0000269   PubMed:19575253, ECO:0000269   PubMed:20937905}, 3-keto acyl-CoA synthase ELOVL5 {ECO:0000255   HAMAP-Rule:MF_03205}, ELOVL fatty acid elongase 5 {ECO:0000255   HAMAP-Rule:MF_03205}, ELOVL FA elongase 5 {ECO:0000255   HAMAP-Rule:MF_03205}, Elongation of very long chain fatty acids protein 5 {ECO:0000255   HAMAP-Rule:MF_03205}, Fatty acid elongase 1, hELO1, Very long chain 3-ketoacyl-CoA synthase 5 {ECO:0000255   HAMAP-Rule:MF_03205}, Very long chain 3-oxoacyl-CoA synthase 5 {ECO:0000255   HAMAP-Rule:MF_03205}, ELOVL5 {ECO:0000255   HAMAP-Rule:MF_03205}, ELOVL2 |
| <b>Calculated MW</b>       | 35293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Application Details</b> | WB 1:500-1:2000<br>ICC/IF 1:50-1:200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>              | Eukaryota                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Contents</b>            | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Clone Names</b>         | Clone: 30E85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Immunogen</b>           | A synthesized peptide derived from human ELOVL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purification</b>        | Affinity-chromatography                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage</b>             | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Protein Information

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| Name              | ELOVL5 {ECO:0000255   HAMAP-Rule:MF_03205}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Synonyms          | ELOVL2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 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 acts specifically toward polyunsaturated acyl-CoA with the higher activity toward C18:3(n-6) acyl-CoA. May participate in the production of monounsaturated and of polyunsaturated VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators (By similarity) (PubMed: <a href="#">10970790</a> , PubMed: <a href="#">20937905</a> ). In conditions where the essential linoleic and alpha linoleic fatty acids are lacking it is also involved in the synthesis of Mead acid from oleic acid (By similarity). |
| Cellular Location | Endoplasmic reticulum membrane {ECO:0000255   HAMAP-Rule:MF_03205, ECO:0000269   PubMed:20937905}; Multi- pass membrane protein {ECO:0000255   HAMAP-Rule:MF_03205}. Cell projection, dendrite {ECO:0000255   HAMAP-Rule:MF_03205, ECO:0000269   PubMed:25065913}. Note=In Purkinje cells, the protein localizes to the soma and proximal portion of the dendritic tree {ECO:0000255   HAMAP-Rule:MF_03205, ECO:0000269   PubMed:25065913}                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Tissue Location   | Ubiquitous. Highly expressed in the adrenal gland and testis. Weakly expressed in prostate, lung and brain. Expressed in the cerebellum.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Images



Western blot analysis of ELOVL5 expression in (1) HeLa cell lysate; (2) RAW 264.7 cell lysate.

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