For Research Use Only

# ELOVL4 Polyclonal antibody

Catalog Number:55023-1-AP 8 Publications

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## Basic Information

Catalog Number:
55023-1-AP

Size:
150ul , Concentration: 550 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_022726

GeneID (NCBI):
6785

Full Name:
elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 4

Calculated MW:
37 kDa

Observed MW:
37-40 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:50-1:500
IF 1:10-1:100

## Applications

Tested Applications:
IF, IHC, WB, ELISA

Cited Applications:
IHC, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse

***Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0***

Positive Controls:

WB : Y79 cells, A431 cells, mouse brain tissue

IHC : human small intestine tissue, human gliomas tissue

IF : A431 cells,

## Background Information

ELOVL4, also named as ADMD, STGD2 and STGD3, belongs to the ELO family. It is a component of the fatty acid elongation system. Elovl4 is involved in the biosynthesis of very long chain fatty acids. It seems to represent a photoreceptor-specific component of the fatty acid elongation system residing on the endoplasmic reticulum. ELOVL4 may be implicated in docosahexaenoic acid (DHA) biosynthesis, which requires dietary consumption of the essential alpha-linolenic acid and a subsequent series of three elongation steps. Defects in ELOVL4 are the cause of Stargardt disease type 3 (STGD3). The antibody is specific to ELOVL4.

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Nesli-Ece Sen | 31766565 | Int J Mol Sci | WB |
| Yanyan Shi | 36348469 | Chin Med | WB |
| Peng Zhang | 35353124 | Invest Ophthalmol Vis Sci | WB |

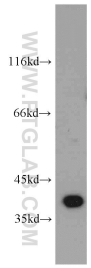
## Storage

Storage:
Store at -20°C.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

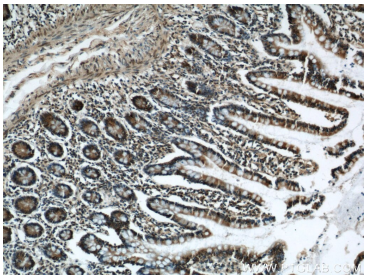
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

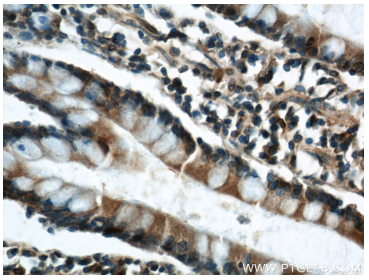
## Selected Validation Data



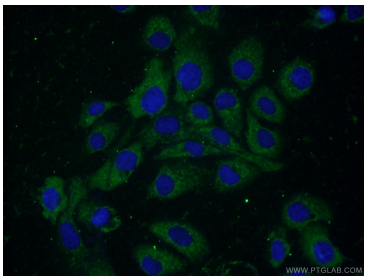

Y79 cells were subjected to SDS PAGE followed by western blot with 55023-1-AP (ELOVL4 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



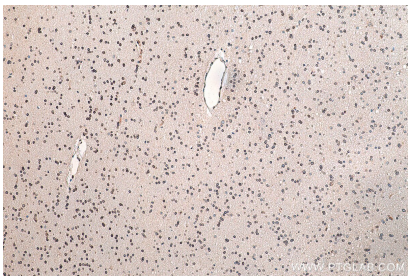
Immunohistochemical analysis of paraffin-embedded human small intestine using 55023-1-AP (ELOVL4 antibody) at dilution of 1:50 (under 10x lens).



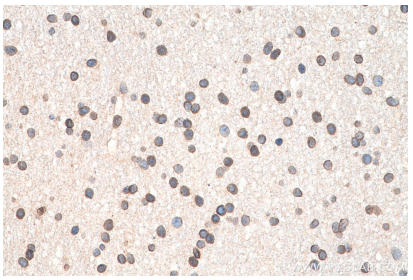
Immunohistochemical analysis of paraffin-embedded human small intestine using 55023-1-AP (ELOVL4 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of A431 cells using 55023-1-AP (ELOVL4 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 55023-1-AP (ELOVL4 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 55023-1-AP (ELOVL4 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).