

For Research Use Only

# ELOVL4 Polyclonal antibody

Catalog Number: 55023-1-AP

Featured Product

9 Publications



## Basic Information

### Catalog Number:

55023-1-AP

### Size:

150ul, Concentration: 550 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_022726

### GeneID (NCBI):

6785

### UNIPROT ID:

Q9GZR5

### 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 1:500-1:1000

IHC 1:250-1:1000

IF/ICC 1:10-1:100

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

### Positive Controls:

WB : Neuro-2a cells, A431 cells, mouse brain tissue, Y79 cells

IHC : human gliomas tissue, human small intestine tissue, mouse brain tissue

IF/ICC : A431 cells,

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

## 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. Stable for one year after shipment.

### 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

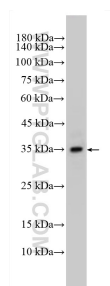
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

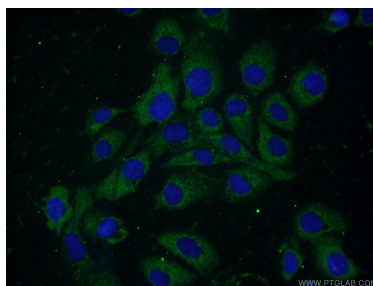
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

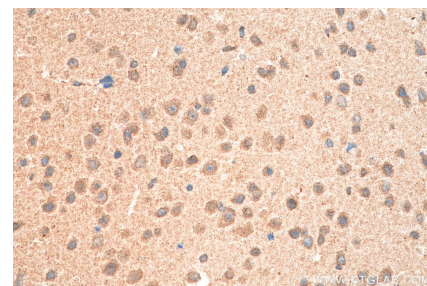
## Selected Validation Data



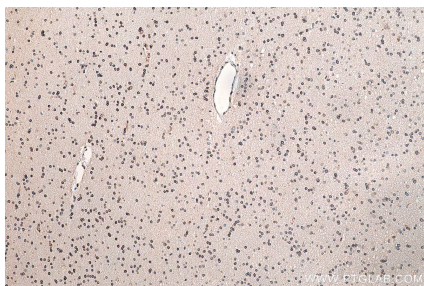
Neuro-2a cells were subjected to SDS PAGE followed by western blot with 55023-1-AP (ELOVL4 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



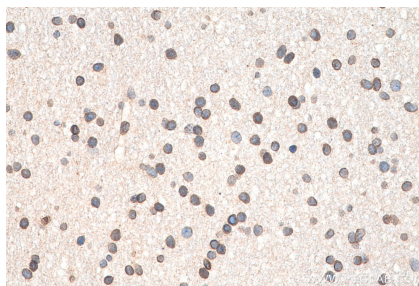
Immunofluorescent analysis of A431 cells using 55023-1-AP (ELOVL4 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded mouse brain 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).



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).