

For Research Use Only

# ELOVL4 Polyclonal antibody

Catalog Number: 55023-1-AP **8 Publications**



## Basic Information

<b>Catalog Number:</b> 55023-1-AP	<b>GenBank Accession Number:</b> NM_022726	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 500 µg/ml	<b>GeneID (NCBI):</b> 6785	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500 IF/ICC 1:10-1:100
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9GZR5	
<b>Isotype:</b> IgG	<b>Full Name:</b> elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 4	
	<b>Calculated MW:</b> 37 kDa	
	<b>Observed MW:</b> 37-40 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, IHC, WB, ELISA	<b>Positive Controls:</b> WB : Y79 cells, A431 cells, mouse brain tissue
<b>Cited Applications:</b> WB, IHC	<b>IHC :</b> human small intestine tissue, human gliomas tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IF/ICC :</b> A431 cells,
<b>Cited Species:</b> 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**

## 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

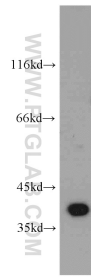
## Storage

**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

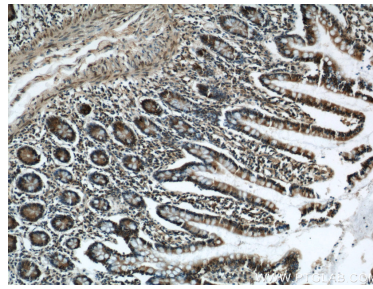
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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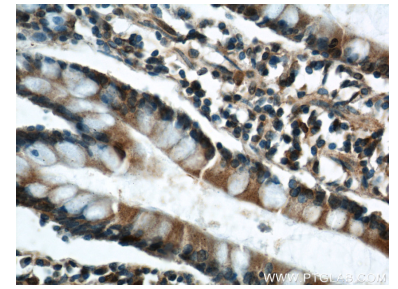
## Selected Validation Data



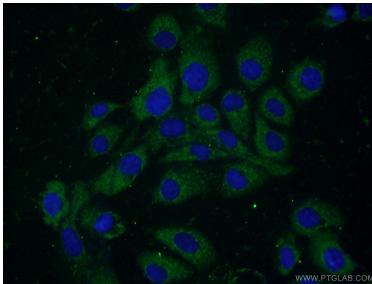
Y79 cells were subjected to SDS PAGE followed by western blot with 55023-1-AP (ELOVL4 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



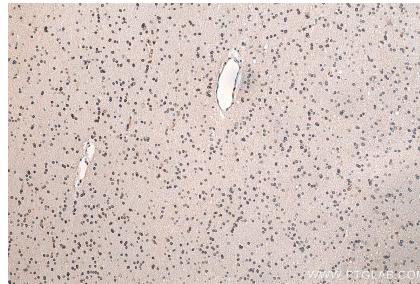
Immunohistochemical analysis of paraffin-embedded human small intestine using 55023-1-AP (ELOVL4 antibody) at dilution of 1:50 (under 10x lens).



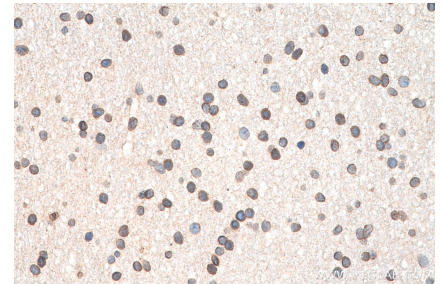
Immunohistochemical analysis of paraffin-embedded human small intestine using 55023-1-AP (ELOVL4 antibody) at dilution of 1:50 (under 40x lens).



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).