

For Research Use Only

# ELAVL4 Monoclonal antibody

Catalog Number: 67835-1-Ig **1 Publications**



## Basic Information

|   |   |  |
|---|---|--|
| <b>Catalog Number:</b><br>67835-1-Ig                          | <b>GenBank Accession Number:</b><br>BC036071  | <b>Purification Method:</b><br>Protein A purification  |
| <b>Size:</b><br>150ul , Concentration: 500 ug/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>1996   | <b>CloneNo.:</b><br>1B1F5  |
| <b>Source:</b><br>Mouse                                       | <b>UNIPROT ID:</b><br>P26378  | <b>Recommended Dilutions:</b><br>WB 1:5000-1:50000<br>IHC 1:400-1:1600<br>IF/ICC 1:200-1:800 |
| <b>Isotype:</b><br>IgG2b                                      | <b>Full Name:</b><br>ELAV (embryonic lethal, abnormal vision, Drosophila)-like 4 (Hu antigen D) |  |
| <b>Immunogen Catalog Number:</b><br>AG3678                    | <b>Calculated MW:</b><br>380 aa, 42 kDa   |  |
|   | <b>Observed MW:</b><br>32-40 kDa  |  |

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, FC (Intra), ELISA

**Cited Applications:**  
ColP

**Species Specificity:**  
Human, rat, mouse, rabbit, pig

**Cited Species:**  
mouse

**Positive Controls:**

**WB :** pig brain tissue, U2OS cells, SH-SY5Y cells, rat brain tissue, mouse brain tissue, rabbit brain tissue, rat cerebellum tissue, mouse cerebellum tissue

**IHC :** mouse brain tissue,

**IF/ICC :** U2OS 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

ELAVL4, also named as HuD, is a 380 amino acid protein. The full name is neuronal embryonic lethal altered visual system-like(ELAVL) RNA-binding protein. ELAVL4 is expressed in brain and localized in the nucleus. PC12 cells expressing T7±HuD were treated with thio-specific (BMH) or amine-specific (DSS) chemical crosslinking reagents, and the resultant crosslinked complexes in the cell extracts were analyzed by immunoblotting with anti-T7 antibody. In addition to the monomeric HuD of 41 kDa, three specific crosslinked complexes could be detected using either of the crosslinkers. Two of the complexes had molecular masses of ~80 and 120 kDa, and were likely to be the dimer and trimer of HuD, respectively. (PMID: 12384599)

## Notable Publications

| Author       | Pubmed ID | Journal       | Application |
|--------------|-----------|---------------|-------------|
| Xiaoying Gao | 37474884  | Mol Neurobiol | ColP        |

## Storage

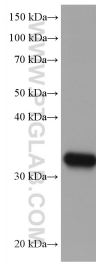
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

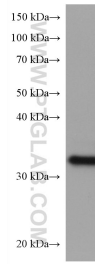
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

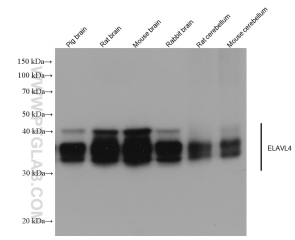
## Selected Validation Data



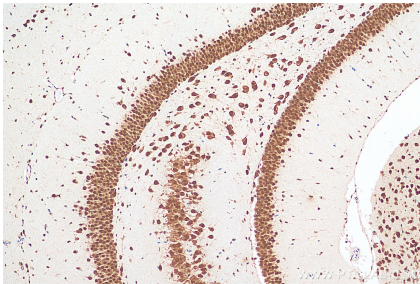
U2OS cells were subjected to SDS PAGE followed by western blot with 67835-1-Ig (ELAVL4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



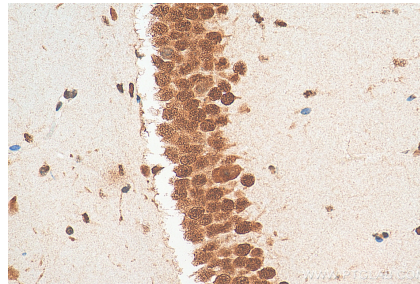
SH-SY5Y cells were subjected to SDS PAGE followed by western blot with 67835-1-Ig (ELAVL4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



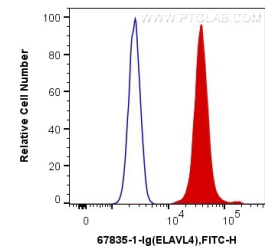
Various lysates were subjected to SDS PAGE followed by western blot with 67835-1-Ig (ELAVL4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



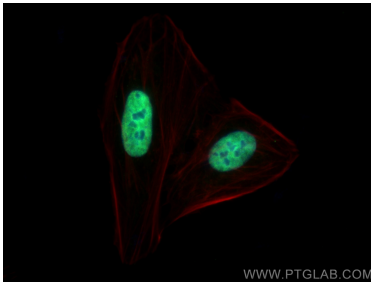
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67835-1-Ig (ELAVL4 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67835-1-Ig (ELAVL4 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



$1 \times 10^6$  U2OS cells were intracellularly stained with 0.4 ug Anti-Human ELAVL4 (67835-1-Ig, Clone:1B1F5) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using ELAVL4 antibody (67835-1-Ig, Clone: 1B1F5) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).