

For Research Use Only

# ELAVL4 Monoclonal antibody

Catalog Number: 67835-1-Ig **2 Publications**



## Basic Information

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

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b> <b>WB</b> : pig brain tissue, U2OS cells, SH-SY5Y cells, rat brain tissue, mouse brain tissue, rabbit brain tissue, rat cerebellum tissue, mouse cerebellum tissue
<b>Cited Applications:</b> WB, IF, CoIP	<b>IHC</b> : mouse brain tissue,
<b>Species Specificity:</b> human, mouse, rat, pig, rabbit	<b>IF/ICC</b> : U2OS cells,
<b>Cited Species:</b> mouse, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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
Hailong Ge	39940881	Int J Mol Sci	WB,IF
Xiaoying Gao	37474884	Mol Neurobiol	CoIP

## Storage

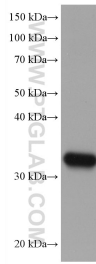
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

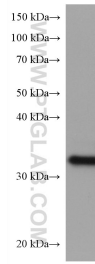
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

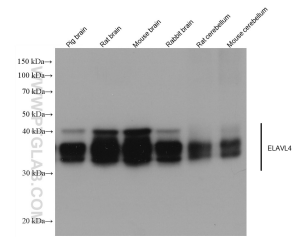
## Selected Validation Data



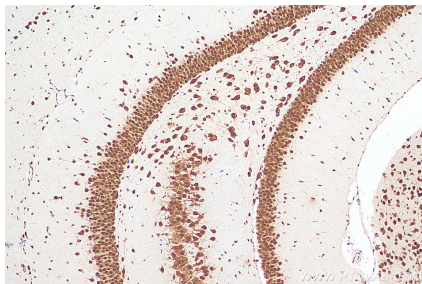
U2OS cells were subjected to SDS PAGE followed by western blot with 67835-1-Ig (ELAVL4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



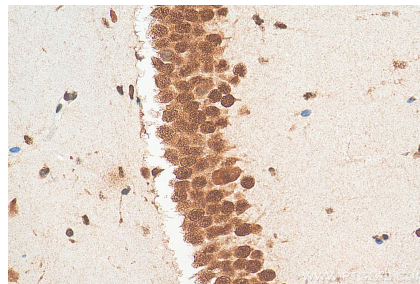
SH-SY5Y cells were subjected to SDS PAGE followed by western blot with 67835-1-Ig (ELAVL4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



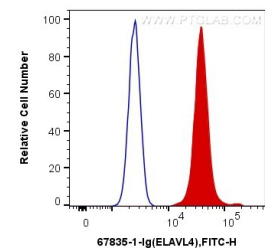
Various lysates were subjected to SDS PAGE followed by western blot with 67835-1-Ig (ELAVL4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



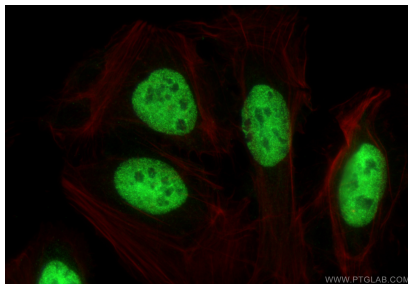
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67835-1-Ig (ELAVL4 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1X10<sup>6</sup> 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 1:800 and Multi-rAb CoraLite® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002), CL594-Phalloidin (red).