

For Research Use Only

# EAAT2 Monoclonal antibody

Catalog Number: 67083-1-Ig **1 Publications**



## Basic Information

|   |  |  |
|---|--|--|
| <b>Catalog Number:</b><br>67083-1-Ig  | <b>GenBank Accession Number:</b><br>BC132768   | <b>Purification Method:</b><br>Protein A purification                |
| <b>Size:</b><br>150ul , Concentration: 1400 ug/ml by Nanodrop and 800 ug/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>6506  | <b>CloneNo.:</b><br>1C8D10   |
| <b>Source:</b><br>Mouse   | <b>UNIPROT ID:</b><br>P43004   | <b>Recommended Dilutions:</b><br>WB 1:1000-1:8000<br>IHC 1:200-1:800 |
| <b>Isotype:</b><br>IgG1   | <b>Full Name:</b><br>solute carrier family 1 (glial high affinity glutamate transporter), member 2 |  |
| <b>Immunogen Catalog Number:</b><br>AG19816   | <b>Calculated MW:</b><br>574 aa, 62 kDa  |  |
|   | <b>Observed MW:</b><br>60-70 kDa   |  |

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>WB, IHC, ELISA  | <b>Positive Controls:</b>   |
| <b>Cited Applications:</b><br>WB   | <b>WB :</b> rat brain tissue, rat cerebellum tissue, mouse brain tissue |
| <b>Species Specificity:</b><br>Human, mouse, rat   | <b>IHC :</b> mouse brain tissue, rat brain tissue                       |
| <b>Cited Species:</b><br>mouse   |   |
| <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

EAAT2 (also known as GLT-1), is encoded by SLC1A2 and is a glutamate transporter which can clear the majority of extracellular glutamate in brain and prevent brain seizures. Three isoforms of EAAT2 exist due to the alternative splicing. In addition to the 65-70 kDa monomer form, 130-150 kDa dimer of EAAT2 can also be observed on SDS-PAGE. (PMID: 22114258)

## Notable Publications

| Author   | Pubmed ID | Journal      | Application |
|----------|-----------|--------------|-------------|
| Jing Yan | 38325382  | Cell Rep Med | WB          |

## Storage

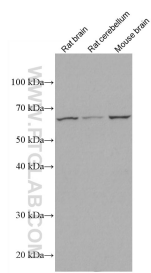
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 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.

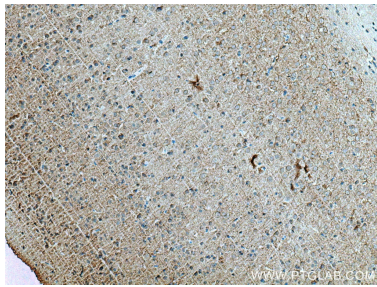
# Selected Validation Data



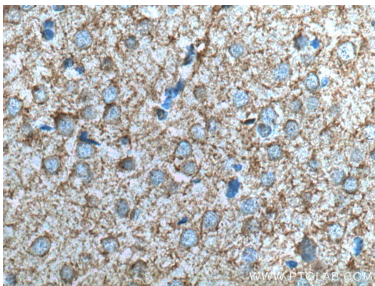
Various lysates were subjected to SDS PAGE followed by western blot with 67083-1-Ig (SLC1A2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



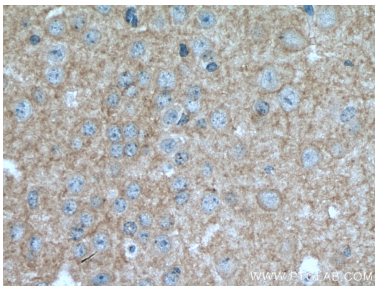
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67083-1-Ig (EAAT2 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 67083-1-Ig (EAAT2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 67083-1-Ig (EAAT2 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67083-1-Ig (EAAT2 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).