

For Research Use Only

# EAAT4 Polyclonal antibody

Catalog Number: 12876-1-AP

1 Publications



## Basic Information

### Catalog Number:

12876-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 227 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3554

### GenBank Accession Number:

BC028721

### GeneID (NCBI):

6511

### UNIPROT ID:

P48664

### Full Name:

solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6

### Calculated MW:

61.6 kDa

### Observed MW:

60-70 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

## Applications

### Tested Applications:

WB, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

mouse

### Positive Controls:

WB: A375 cells,

## Background Information

Excitatory amino acid transporter 4 (EAAT4) is a neuronal glutamate transporter responsible for the reuptake of synaptically released glutamate. The EAAT4 protein is highly enriched in Purkinje cells of the cerebellum, although it is not restricted to these cells (18770868). While the predicted molecular weight of EAAT4 is 62 kDa, considerable heterogeneity in transporter size has been reported in the brain with molecular weights ranging from 50 to 120 kDa as a result of differential glycosylation and/or phosphorylation (24056007). This antibody recognizes 60-70 kDa of EAAT4 in mouse brain and several other lysate.

## Notable Publications

Author	Pubmed ID	Journal	Application
Michael Rabenstein	29463856	Sci Rep	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

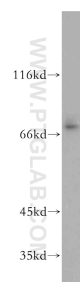
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## Selected Validation Data



A375 cells were subjected to SDS PAGE followed by western blot with 12876-1-AP (EAAT4 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.