For Research Use Only

EAAT4 Polyclonal antibody

Catalog Number:12876-1-AP 3 Publications

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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
IF-Fro: 1:50-1:500

Applications

Tested Applications:
WB, IF-Fro, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

Positive Controls:

WB : A375 cells,

IF-Fro : mouse cerebellum tissue,

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
Chenchen Li	40481876	Cancer Immunol Immunother	WB
Zhigang Huang	39733689	Neoplasia	WB

Storage

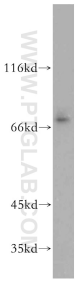
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

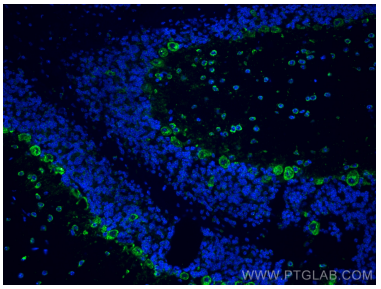
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

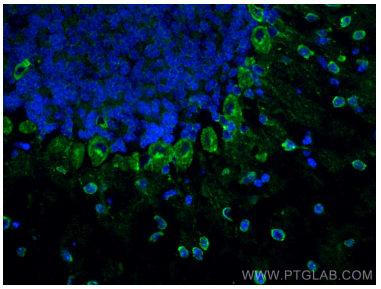
Selected Validation Data



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.



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse cerebellum tissue using EAAT4 antibody (12876-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



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