

For Research Use Only

EAAT2 Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number: 88675-1-PBS



Basic Information

Catalog Number: 88675-1-PBS	GenBank Accession Number: BC132768	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 6506	CloneNo.: 261306F4
Source: Rabbit	UNIPROT ID: P43004	
Isotype: IgG	Full Name: solute carrier family 1 (glial high affinity glutamate transporter), member 2	
Immunogen Catalog Number: AG19816	Calculated MW: 574 aa, 62 kDa	
	Observed MW: 60-70 kDa	

Applications

Tested Applications:
WB, Sandwich ELISA, Indirect ELISA

Species Specificity:
human, mouse, rat

Product Information

88675-1-PBS targets EAAT2 as part of a matched antibody pair:

MP03768-1: 88675-2-PBS capture and 88675-1-PBS detection (validated in Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

Background Information

There are five isoforms of the EAATs, with their expression being cell type and brain region specific. The isoforms EAAT1 and EAAT2 are primarily expressed on astrocytes, with high expression in the cerebellum and throughout the entire brain, respectively. EAAT3 is expressed throughout the brain, while EAAT4 expression is predominantly found in the cerebellum. EAAT5 expression is mainly restricted to photoreceptors and bipolar cells in the retina. EAAT2, encoded by the SLC1A2 gene and also referred to by its rodent nomenclature, glutamate transporter 1 (GLT-1), is responsible for 90% of glutamate uptake in the mature brain. Its expression is hence critical for controlling extracellular glutamate concentrations.

Storage

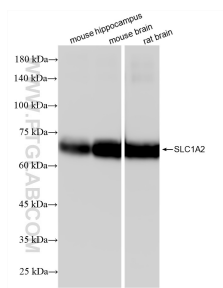
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

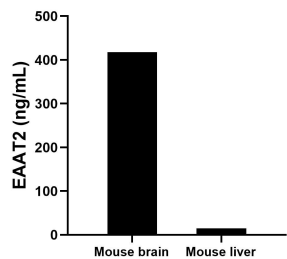
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

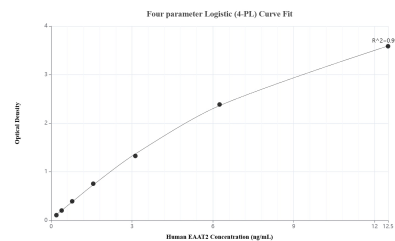
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 88675-1-RR (SLC1A2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 88675-1-PBS in a different storage buffer formulation.



The mean EAAT2 concentration was determined to be 417.70 ng/mL in mouse brain tissue extract based on a 1.20 mg/mL extract load and 14.97 ng/mL in mouse liver tissue extract based on a 1.20 mg/mL extract load.



Sandwich ELISA standard curve of MP03768-1, Human EAAT2 Recombinant Matched Antibody Pair - PBS only. 88675-2-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag19816. 88675-1-PBS was HRP conjugated as the detection antibody. Range: 0.195-12.5 ng/mL.