Product Data Sheet
EAAT2 Rabbit Monoclonal Antibody

Product name:	EAAT2 Rabbit Monoclonal Antibody
Cat number:	MAB25213
Conjugate:	Unconjugated
Host:	Rabbit
Size:	100 ug
Synonyms:	GLT1; HBGT; DEE41; EAAT2; GLT-1; EIEE41; EAAT2/SLC1A2
Clone:	ARC63682
Concentration:	1mg/ml
Isotype:	IgG
Immunogen:	Synthetic peptide. This information is considered to be commercially sensitive.
Reactivity:	Human,Mouse,Rat
Applications:	WB 1:9000 - 1:36000 IHC-P 1:800 - 1:8000 IF/ICC 1:200 - 1:800 ELISA Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.
Molecular Weight:	62kDa/
Purification:	Affinity purification
Background:	This gene encodes a member of a family of solute transporter proteins. The membrane-bound protein is the principal transporter that clears the excitatory neurotransmitter glutamate from the extracellular space at synapses in the central nervous system. Glutamate clearance is necessary for proper synaptic activation and to prevent neuronal damage from excessive activation of glutamate receptors. Improper regulation of this gene is thought to be associated with several neurological disorders. Alternatively spliced transcript variants of this gene have been identified.
Form:	liquid
Buffer:	PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.
Storage:	Store at -20℃. Avoid freeze / thaw cycles.

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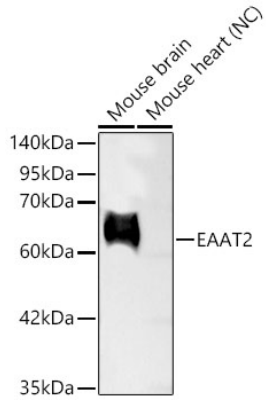
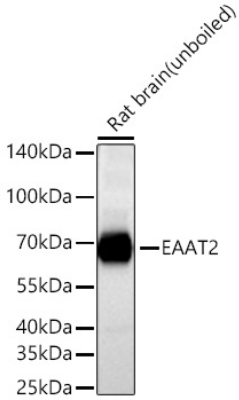
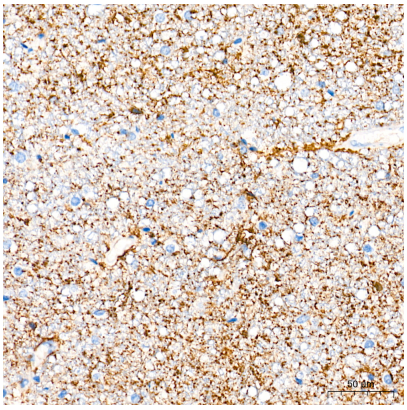


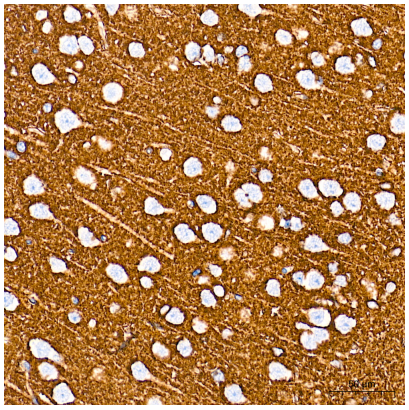
Western blot analysis of various lysates using EAAT2 Rabbit mAbat 1:9000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit. Negative control (NC): Mouse heart. Exposure time: 30s.



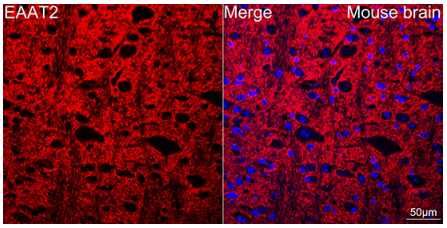
Western blot analysis of lysates from Rat brain using EAAT2 Rabbit mAb at 1:8000 dilution incubated overnight at 4℃. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit Exposure time: 10s.



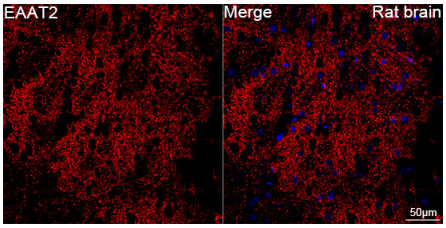
Immunohistochemistry analysis of paraffin-embedded Human brain tissue using EAAT2 Rabbit mAb at a dilution of 1:8000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using EAAT2 Rabbit mAb at a dilution of 1:8000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



Confocal imaging of paraffin-embedded Mouse brain tissue using EAAT2 Rabbit mAb (dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform microwave antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.



Confocal imaging of paraffin-embedded Rat brain tissue using EAAT2 Rabbit mAb (dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

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Web-site: https://immunologicalsciences.com - E-mail: info@immunologicalsciences.com