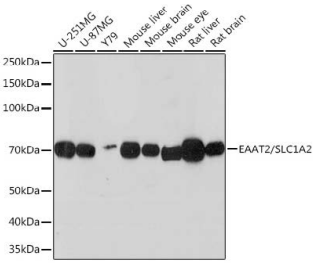
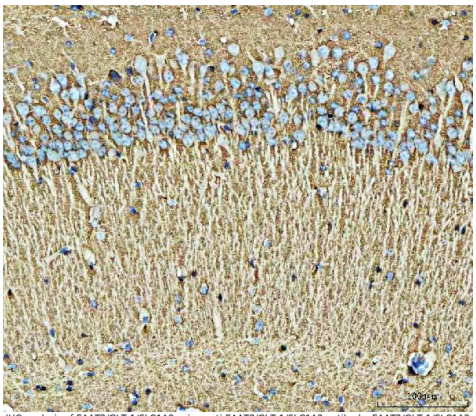
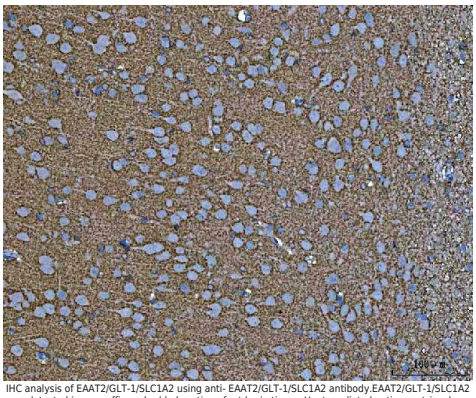
Product name:	Glutamate Transporter 2 (GLT1/EAAT2) Rabbit Polyclonal Antibody
Cat number:	AB-82459
Conjugate:	Unconjugated
Size:	100 ug
Clone:	POLY
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG
Immunogen:	Recombinant protein oh human EAAT2 / GLT-1 / SLC1A2
Reactivity:	Human, Mouse, Rat
Applications:	Western Blot: 1:2,500 Immunohistochemistry: 1: 100 Immunofluorescence: 1:100
Molecular Weight:	65 kDA
Purification:	Immunogen affinity purified.
Form:	Liquid
Buffer:	PBS (pH7.4) with 0.02% sodium azide, 50% glycerol pH 7.3.
Storage:	Ship at 2-8°C . Store at RT for short term. Store at -20°C for one year. Avoid repeated freeze and thaw cycles.
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. Mutations in and decreased expression of this protein are associated with amyotrophic lateral sclerosis. Alternatively spliced transcript variants of this gene have been identified.



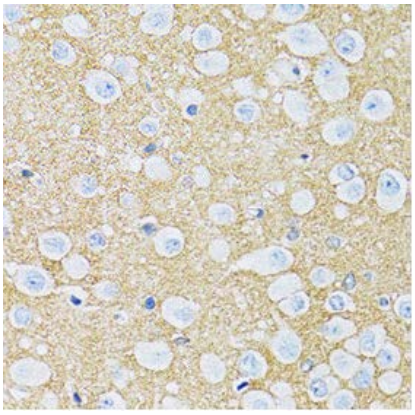
Western blot analysis of extracts of various cell lines, using GLT1 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit Exposure time: 15s.



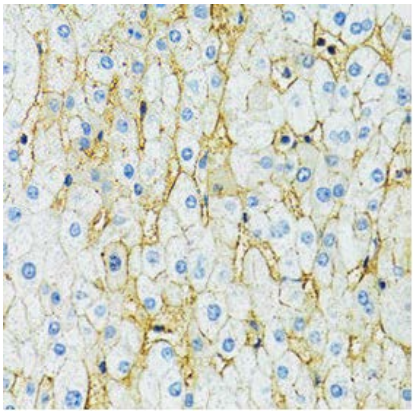
IHC analysis of EAAT2/GLT-1/SLC1A2 using anti-EAAT2/GLT-1/SLC1A2 antibody .EAAT2/GLT-1/SLC1A2 was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-EAAT2/GLT-1/SLC1A2 Antibody overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbitIgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



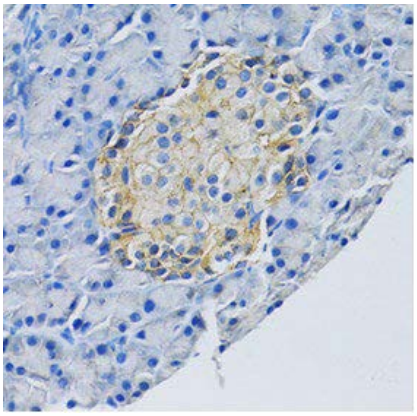
IHC analysis of EAAT2/GLT-1/SLC1A2 using anti- EAAT2/GLT-1/SLC1A2 antibody.EAAT2/GLT-1/SLC1A2 was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrievalwas performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-EAAT2/GLT-1/SLC1A2 Antibody overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



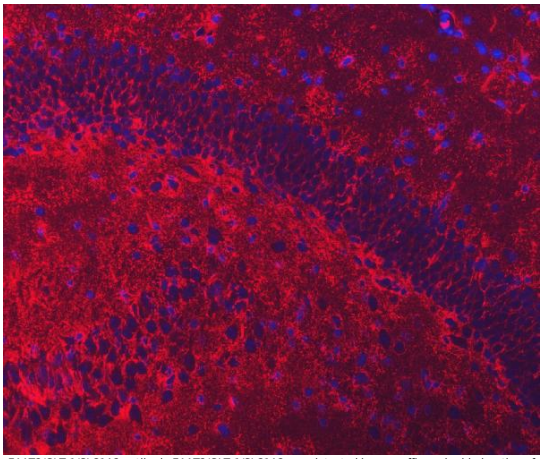
Immunohistochemistry of paraffin-embedded rat brain using GLT1 antibody at dilution of 1:100 (40x lens).



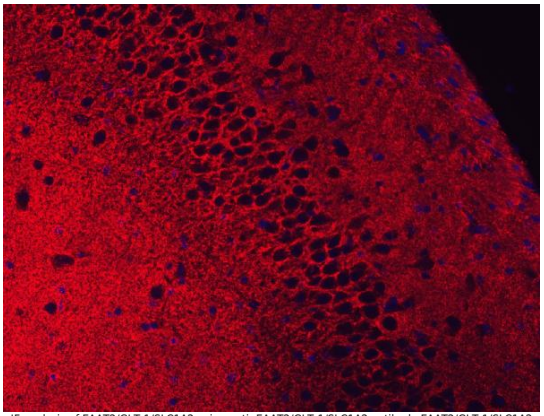
Immunohistochemistry of paraffin-embedded human liver using GLT1 antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded rat pancreas using GLT1 antibody at dilution of 1:100 (40x lens).



EAAT2/GLT-1/SLC1A2 antibody.EAAT2/GLT-1/SLC1A2 was detected in a paraffin-embeddedsection of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5ug/mL rabbit anti-EAAT2/GLT-1/SLC1A2 Antibody overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilutionand incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IF analysis of EAAT2/GLT-1/SLC1A2 using anti- EAAT2/GLT-1/SLC1A2 antibody.EAAT2/GLT-1/SLC1A2 was detected in a paraffin-embeddedsection of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/mL rabbit anti-EAAT2/GLT-1/SLC1A2 Antibody overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.