Leader in Biomolecular Solutions for Life Science

EAAT1/SLC1A3 Rabbit mAb

Catalog No.: A9712

Recombinant

www.abclonal.com

Basic Information

Observed MW
50-55kDa/90-130kDa

Calculated MW
60kDa

Category
Monoclonal Antibodies

Applications
WB, IF-P, IHC-P, mIHC, ELISA

Cross Reactivity
Human, Mouse, Rat

Clone No.
ARC1714

Background

This gene encodes a member of a member of a high affinity glutamate transporter family. This gene functions in the termination of excitatory neurotransmission in central nervous system. Mutations are associated with episodic ataxia, Type 6. Alternative splicing results in multiple transcript variants.

Recommended Dilutions

WB	1:500 - 1:2000
IF-P	1:200 - 1:800
IHC-P	1:300 - 1:1200
mIHC	1:200 - 1:800

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
6507

Swiss-Prot
P43003

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
EA6; EAAT1; GLAST; GLAST1; EAAT1/SLC1A3

Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

Product Information

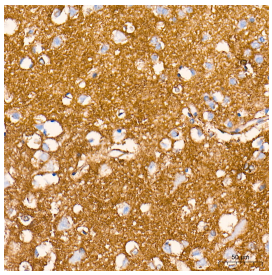
Source
Rabbit

Isotype
IgG

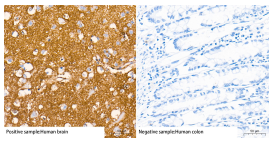
Purity
Affinity purification

Storage
Store at -20℃

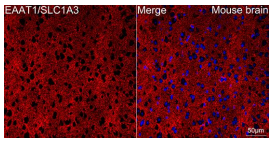
Validation Data



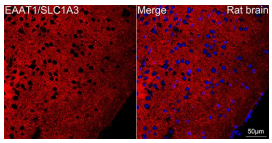
Immunohistochemistry analysis of paraffin-embedded Human brain tissue using EAAT1/SLC1A3 Rabbit mAb (A9712) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



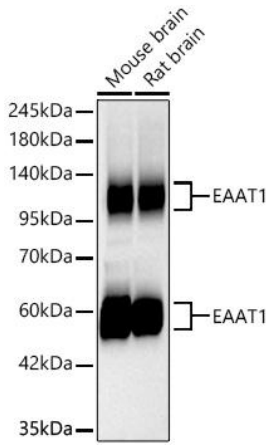
Immunohistochemistry analysis of paraffin-embedded Human brain tissue (left, Positive control) and Human colon tissue (right, Negative control) tissue using EAAT1 /SLC1A3 Rabbit mAb (A9712) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



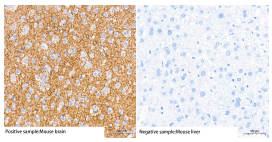
Confocal imaging of paraffin-embedded Mouse brain tissue using EAAT1/SLC1A3 Rabbit mAb (A9712, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform microwave antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.



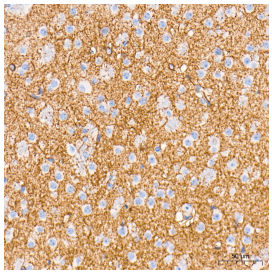
Confocal imaging of paraffin-embedded Rat brain tissue using EAAT1/SLC1A3 Rabbit mAb (A9712, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform microwave antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.



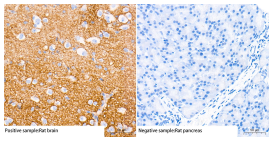
Western blot analysis of various lysates using EAAT1/SLC1A3 Rabbit mAb (A9712) at 1:1000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45s.



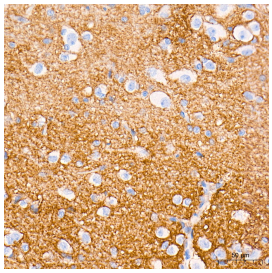
Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue (left, Positive control) and Mouse liver tissue (right, Negative control) tissue using EAAT1 /SLC1A3 Rabbit mAb (A9712) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



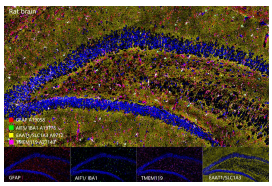
Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using EAAT1/SLC1A3 Rabbit mAb (A9712) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



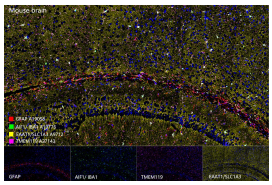
Immunohistochemistry analysis of paraffin-embedded Rat brain tissue (left, Positive control) and Rat pancreas tissue (right, Negative control) tissue using EAAT1 /SLC1A3 Rabbit mAb (A9712) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using EAAT1 /SLC1A3 Rabbit mAb (A9712) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



The multiplex IHC analysis on paraffin-embedded Rat brain tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : AIF1/IBA1 Rabbit mAb (A19776, 1:20000) with TSA-TYR-520 (Green), and GFAP Rabbit mAb (A19058, 1:2000) with TSA-TYR-570 (Red), and TMEM119 Rabbit mAb (A27143, 1:5000) With TSA-TYR-690 (Magenta), and EAAT1 /SLC1A3 Rabbit mAb (A9712, 1:500) with TSA-TYR-690 (Yellow). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 40x objective lens.



The multiplex IHC analysis on paraffin-embedded Mouse brain tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : AIF1/IBA1 Rabbit mAb (A19776, 1:20000) with TSA-TYR-520 (Green), and GFAP Rabbit mAb (A19058, 1:2000) with TSA-TYR-570 (Red), and TMEM119 Rabbit mAb (A27143, 1:5000) With TSA-TYR-690 (Magenta), and EAAT1 /SLC1A3 Rabbit mAb (A9712, 1:500) with TSA-TYR-690 (Yellow). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 40x objective lens.