

## Rabbit anti-Mouse, Rat EAAT1/SLC1A3 Polyclonal Antibody | anti-SLC1A3 antibody

Anti-EAAT1/SLC1A3 Antibody Picoband

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                           |
|-----------|--------|------------|--------------------------------------------------------|
| AAA19447  | Rabbit | Mouse, Rat | Immunofluorescence, Immunohistochemistry, Western Blot |

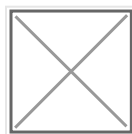
### PRODUCT SYNONYMS

EAAT1/SLC1A3; Polyclonal Antibody; Anti-EAAT1/SLC1A3 Antibody Picoband; anti-SLC1A3 antibody

### PRODUCT SPECIFICATIONS

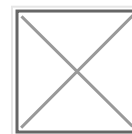
|                                                  |                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                                                                                                                                                    |
| Reactivity                                       | Mouse, Rat                                                                                                                                                                                                                                                                                                |
| Clonality                                        | Polyclonal                                                                                                                                                                                                                                                                                                |
| Isotype                                          | Rabbit IgG                                                                                                                                                                                                                                                                                                |
| Purity/Purification                              | Immunogen affinity purified.                                                                                                                                                                                                                                                                              |
| Form/Format                                      | Lyophilized<br>Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                                                                                                  |
| Concentration                                    | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)                                                                                                                                                                                                                 |
| Applicable Applications for anti-SLC1A3 antibody | IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                                                                    |
| Application Notes                                | WB: 0.25-0.5 ug/ml, Mouse, Rat<br>IHC-P: 2-5 ug/ml, Mouse, Rat<br>IF: 5 ug/ml, Mouse, Rat<br>Tested Species: In-house tested species with positive results.<br>Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC(P). |
| Reconstitution                                   | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.                                                                                                                                                                                                                                 |
| Immunogen                                        | A synthetic peptide corresponding to a sequence of human EAAT1/SLC1A3 (EMKKPYQLIAQDNETEKPID).                                                                                                                                                                                                             |
| Preparation and Storage                          | Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.                                                                              |

### IMAGES



#### IF (Immunofluorescence)

Figure 7. IF analysis of EAAT1/SLC1A3 using anti-EAAT1/SLC1A3 antibody (AAA19447).EAAT1/SLC1A3 was detected in a paraffin-embedded section 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-EAAT1/SLC1A3 Antibody (AAA19447) overnight at 4 degree C. Biotin conjugated goat anti-rabbit IgG (BA1003) was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using DyLight488 Conjugated Avidin (BA1128). The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



#### IF (Immunofluorescence)

Figure 6. IF analysis of EAAT1/SLC1A3 using anti-EAAT1/SLC1A3 antibody (AAA19447).EAAT1/SLC1A3 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 5 ug/mL rabbit anti-EAAT1/SLC1A3 Antibody (AAA19447) overnight at 4 degree C. Biotin conjugated goat anti-rabbit IgG (BA1003) was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using DyLight488 Conjugated Avidin (BA1128). The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



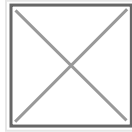
#### IHC (Immunohistochemistry)

Figure 5. IHC analysis of EAAT1/SLC1A3 using anti-EAAT1/SLC1A3 antibody (AAA19447).EAAT1/SLC1A3 was detected in a paraffin-embedded section of rat cerebellum 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-EAAT1/SLC1A3 Antibody (AAA19447) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



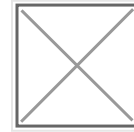
#### IHC (Immunohistochemistry)

Figure 4. IHC analysis of EAAT1/SLC1A3 using anti-EAAT1/SLC1A3 antibody (AAA19447).EAAT1/SLC1A3 was detected in a paraffin-embedded section 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 2 ug/ml rabbit anti-EAAT1/SLC1A3 Antibody (AAA19447) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



#### IHC (Immunohistochemistry)

Figure 3. IHC analysis of EAAT1/SLC1A3 using anti-EAAT1/SLC1A3 antibody (AAA19447).EAAT1/SLC1A3 was detected in a paraffin-embedded section 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 2 ug/ml rabbit anti-EAAT1/SLC1A3 Antibody (AAA19447) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



#### IHC (Immunohistochemistry)

Figure 2. IHC analysis of EAAT1/SLC1A3 using anti-EAAT1/SLC1A3 antibody (AAA19447).EAAT1/SLC1A3 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-EAAT1/SLC1A3 Antibody (AAA19447) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.

## ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-SLC1A3 antibody | Excitatory amino acid transporter 1 (EAAT1) is a protein that, in humans, is encoded by the SLC1A3 gene. It is mapped to 5p13.2. 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. |
| Product Categories/Family for anti-SLC1A3 antibody   | Primary Antibodies, Rabbit Polyclonal Antibodies                                                                                                                                                                                                                                                                                                                                                                                                |

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 584277111                                                                                                                          |
| NCBI GeneID                      | 6507                                                                                                                               |
| NCBI Accession #                 | NP_001276868.1                                                                                                                     |
| NCBI GenBank Nucleotide #        | NM_001289939.1                                                                                                                     |
| UniProt Accession #              | P43003; Q4JCQ8; B2R5T3                                                                                                             |
| Molecular Weight                 | 59,572 Da                                                                                                                          |
| NCBI Official Full Name          | excitatory amino acid transporter 1 isoform 4                                                                                      |
| NCBI Official Synonym Full Names | solute carrier family 1 (glial high affinity glutamate transporter), member 3                                                      |
| NCBI Official Symbol             | SLC1A3                                                                                                                             |
| NCBI Official Synonym Symbols    | EA6; EAAT1; GLAST; GLAST1                                                                                                          |
| NCBI Protein Information         | excitatory amino acid transporter 1; GLAST-1; solute carrier family 1 member 3; sodium-dependent glutamate/aspartate transporter 1 |
| UniProt Protein Name             | Excitatory amino acid transporter 1                                                                                                |
| UniProt Gene Name                | SLC1A3                                                                                                                             |

|                            |                               |
|----------------------------|-------------------------------|
| UniProt Synonym Gene Names | EAAT1; GLAST; GLAST1; GLAST-1 |
| UniProt Entry Name         | EAA1_HUMAN                    |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/eaat1-slc1a3-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/19447>