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Datasheet for ABIN4886724

## anti-SLC1A3 antibody (N-Term)

4 Images

1 Publication

### Overview

Quantity:	100 µg
Target:	SLC1A3
Binding Specificity:	AA 14-42, N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

### Product Details

Purpose:	Rabbit IgG polyclonal antibody for Excitatory amino acid transporter 1(SLC1A3) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human EAAT1 (14-42aa RMERFQQGVRKRTLAKKKVQNITKEDVK), different from the related mouse sequence by three amino acids, and identical to the related rat sequence.
Sequence:	RMERFQQGVR KRTLAKKKV QNITKEDVK
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Excitatory amino acid transporter 1(SLC1A3) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: solute carrier family 1 (glial high affinity glutamate transporter), member 3 Protein Name: Excitatory amino acid transporter 1

## Product Details

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Purification: Immunogen affinity purified.

## Target Details

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Target: SLC1A3

Alternative Name: SLC1A3 ([SLC1A3 Products](#))

Background: Solute carrier family 1 (glial high-affinity glutamate transporter), member 3, also known as SLC1A3, EAAT1 or GLAST, is a protein that in humans is encoded by the SLC1A3 gene. This gene is a member of high affinity glutamate transporter family. It is mapped to chromosome 5p13.2 by fluorescence in situ hybridization (FISH). And this gene transports L-glutamate and also L- and D-aspartate. It is essential for terminating the postsynaptic action of glutamate by rapidly removing released glutamate from the synaptic cleft. Furthermore, this gene acts as a symport by cotransporting sodium.

Synonyms: EA6 | EAA1 | EAAT 1 | EAAT1 | EAAT1 | GLAST | GLAST1 | Glast | GLAST-1 | SLC1A3 | P43003

Gene ID: 6507

UniProt: [P43003](#)

Pathways: [Sensory Perception of Sound](#), [Synaptic Membrane](#), [Dicarboxylic Acid Transport](#)

## Application Details

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Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse, Rat, Predicted Species: Human  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.  
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.  
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

## Handling

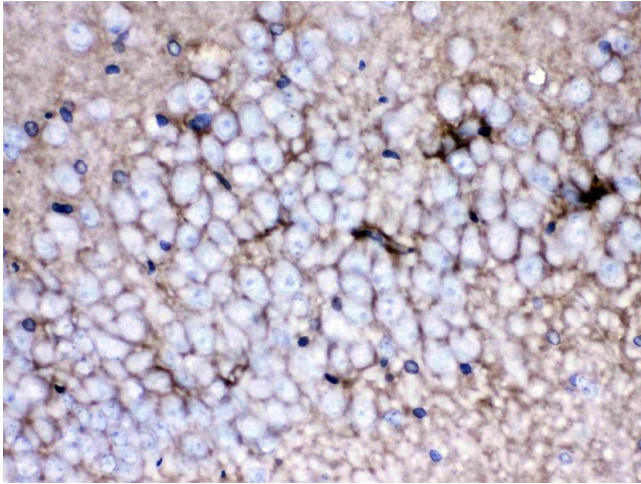
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Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Publications

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Product cited in:	<p>Qu, Zhang, Du, Wang, Yang, Guo, Wang, Zhang, Xu: "Pim-3 is a Critical Risk Factor in Development and Prognosis of Prostate Cancer." in: <b>Medical science monitor : international medical journal of experimental and clinical research</b>, Vol. 22, pp. 4254-4260, (2017) (<a href="#">PubMed</a>).</p> <p>Zhu, Liu, Wang, Nie, He, Zhang, Liu, Su: "Lentiviral-mediated growth-associated protein-43 modification of bone marrow mesenchymal stem cells improves traumatic optic neuropathy in rats." in: <b>Molecular medicine reports</b>, Vol. 12, Issue 4, pp. 5691-700, (2016) (<a href="#">PubMed</a>).</p> <p>Cao, Li, Li, Xiong, Zhou, Fan, Yu, Mao: "The potential role of HMGB1 release in peritoneal dialysis-related peritonitis." in: <b>PLoS ONE</b>, Vol. 8, Issue 1, pp. e54647, (2013) (<a href="#">PubMed</a>).</p>
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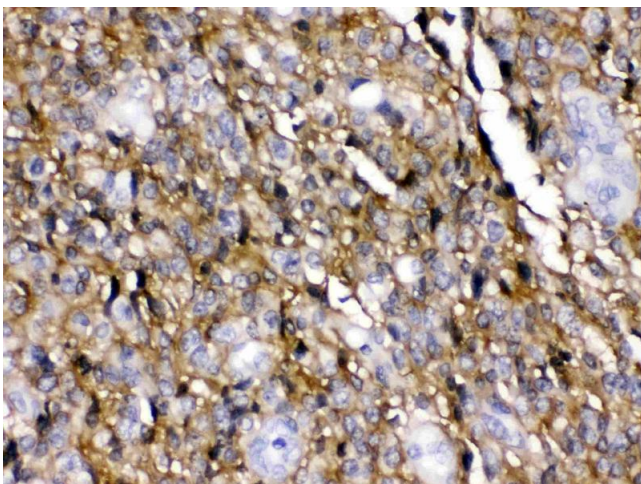
### Immunohistochemistry

**Image 1.** EAAT1 was detected in paraffin-embedded sections of rat brain tissues using rabbit anti- EAAT1 Antigen Affinity purified polyclonal antibody (Catalog # ) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



### Western Blotting

**Image 2.** Western blot analysis of EAAT1 expression in rat brain extract ( Lane 1) and mouse brain extract ( Lane 2). EAAT1 at 60KD was detected using rabbit anti-EAAT1 Antigen Affinity purified polyclonal antibody (Catalog # ) at 0.5  $\mu$ g/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).



### Immunohistochemistry

**Image 3.** EAAT1 was detected in paraffin-embedded sections of human glioma tissues using rabbit anti- EAAT1 Antigen Affinity purified polyclonal antibody (Catalog # ) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN4886724.