

Datasheet for ABIN4886724
anti-SLC1A3 antibody (N-Term)



[Go to Product page](#)

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 RMERFQQGVRKRTLLAKKKVQNITKEDVK), different from the related mouse sequence by three amino acids, and identical to the related rat sequence.
Sequence:	RMERFQQGVR KRTLLAKKKV 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

Purification: Immunogen affinity purified.

Target Details

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

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

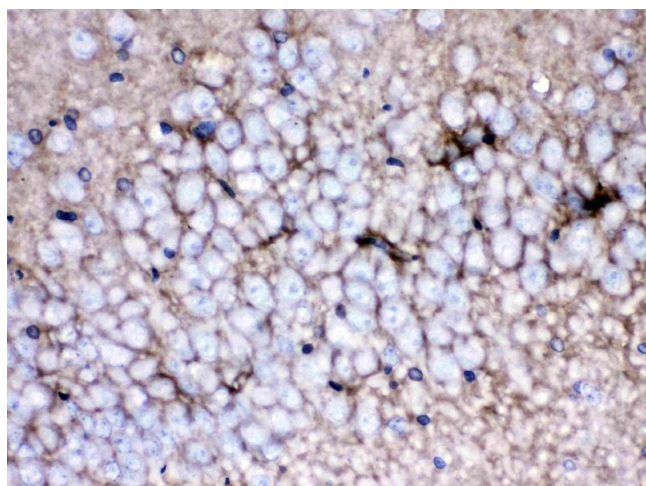
Handling

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 ₂ HPO ₄ , 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

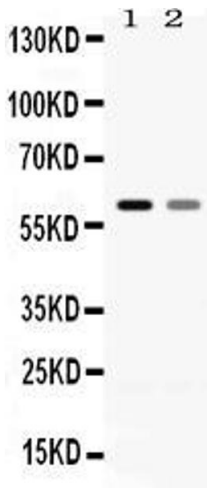
Product cited in:	Ding, Zhang, Liu, Zhang, Ma, Bruce, Zhang: "Tumor necrosis factor- α promotes the expression of excitatory amino-acid transporter 2 in astrocytes: Optimal concentration and incubation time." in: Experimental and therapeutic medicine , Vol. 8, Issue 6, pp. 1909-1913, (2014) (PubMed).
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Images



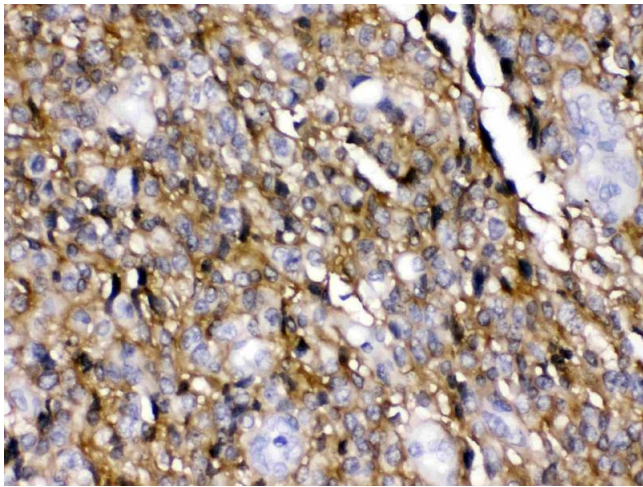
Immunohistochemistry

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 µg/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 $\mu\text{g/mL}$. 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 $\mu\text{g/mL}$. 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.