Datasheet for ABIN3044001

anti-SLC1A3 antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	SLC1A3
Binding Specificity:	AA 519-537, C-Term
Reactivity:	Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Excitatory amino acid transporter 1(SLC1A3) detection. Tested with WB, IHC-P, IHC-F in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human EAAT1(519-537aa MKKPYQLIAQDNETEKPID), different from the related rat and mouse sequences by three amino acids.
Sequence:	MKKPYQLIAQ DNETEKPID
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: human No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.

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Product Details

Characteristics:	Rabbit IgG polyclonal antibody for Excitatory amino acid transporter 1(SLC1A3) detection. Tested with WB, IHC-P, IHC-F in Human,Mouse,Rat. Gene Name: solute carrier family 1(glial high affinity glutamate transporter), member 3 Protein Name: Excitatory amino acid transporter 1
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. SLC1A3 is mapped to chromosome 5p13.2 by fluorescence in situ hybridization(FISH). 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. This gene acts as a symport by cotransporting sodium. Synonyms: EA6 antibody|EAA1_HUMAN antibody|EAAT1 antibody|Excitatory amino acid transporter 1 antibody|FLJ25094 antibody|GLAST antibody|GLAST-1 antibody|GLAST1 antibody|Glial high affinity glutamate transporter antibody|glutamate/aspartate transporter, high affinity, sodium-dependent antibody|High affinity neuronal glutamate transporter antibody|Slc1a3 antibody|Sodium dependent glutamate/aspartate transporter antibody|Sodium-dependent glutamate/aspartate transporter 1 antibody|Solute carrier family 1(glial high affinity glutamate transporter) member 3 antibody|Solute carrier family 1 member 3 antibody
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: Rat, Predicted Species: Human, 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.

Application Details

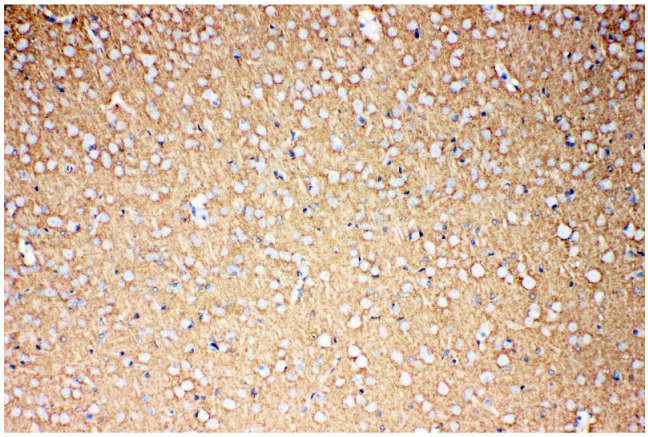
	IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Rat, Predicted Species: Human Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and IHC(F).
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 Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES 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.
Expiry Date:	12 months

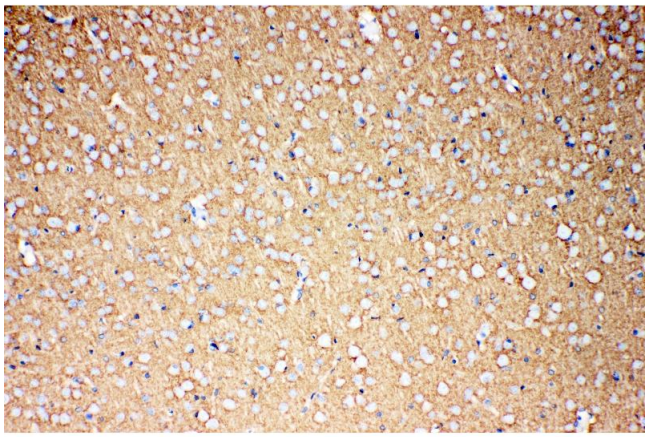
Publications

Product cited in:	Liu, Chen, Wang, Yang, Xue, Zhu: "Msi1 confers resistance to TRAIL by activating ERK in liver cancer cells." in: **FEBS letters**, Vol. 589, Issue 8, pp. 897-903, (2015) (PubMed).



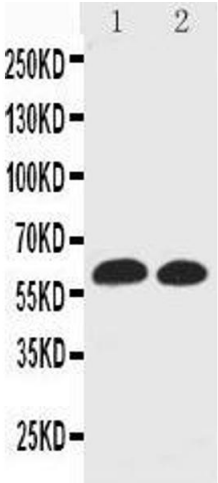
Immunohistochemistry

Image 1. Anti-EAAT1 antibody, IHC(P): Rat Brain Tissue



Immunohistochemistry

Image 2. Anti-EAAT1 antibody, IHC(P) IHC(P): Rat Brain Tissue



Western Blotting

Image 3. Anti-EAAT1 antibody, Western blotting Lane 1: Rat Brain Tissue Lysate Lane 2: Mouse Brain Tissue Lysate

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