Datasheet for ABIN7152226

anti-SLC1A3 antibody (AA 146-236)

3 Images

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Overview

Quantity:	100 µL
Target:	SLC1A3
Binding Specificity:	AA 146-236
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC1A3 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Excitatory amino acid transporter 1 protein (146-236AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	SLC1A3
Alternative Name:	SLC1A3 (SLC1A3 Products)
Background:	Background: Sodium-dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and also L-aspartate and D-aspartate (PubMed:7521911, PubMed:8123008,

Target Details

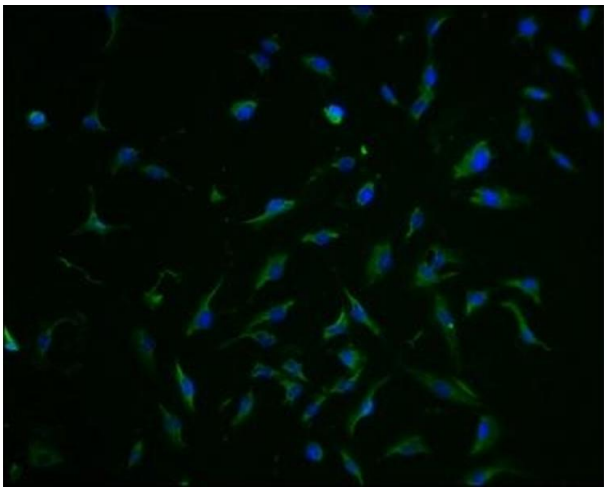
	PubMed:20477940, PubMed:26690923, PubMed:28032905, PubMed:28424515). Functions as a symporter that transports one amino acid molecule together with two or three Na(+) ions and one proton, in parallel with the counter-transport of one K(+) ion (PubMed:20477940). Mediates Cl(-) flux that is not coupled to amino acid transport, this avoids the accumulation of negative charges due to aspartate and Na(+) symport (PubMed:20477940). Plays a redundant role in the rapid removal of released glutamate from the synaptic cleft, which is essential for terminating the postsynaptic action of glutamate (By similarity). Aliases: 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:	Recommended dilution: IHC:1:200-1:500, IF:1:100-1:500,
Restrictions:	For Research Use only

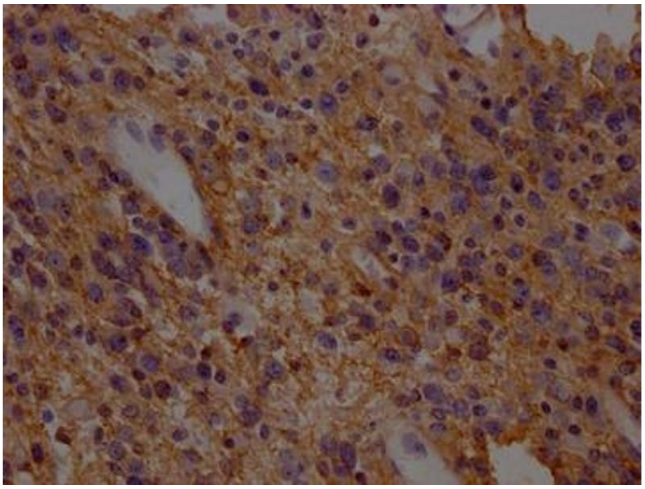
Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



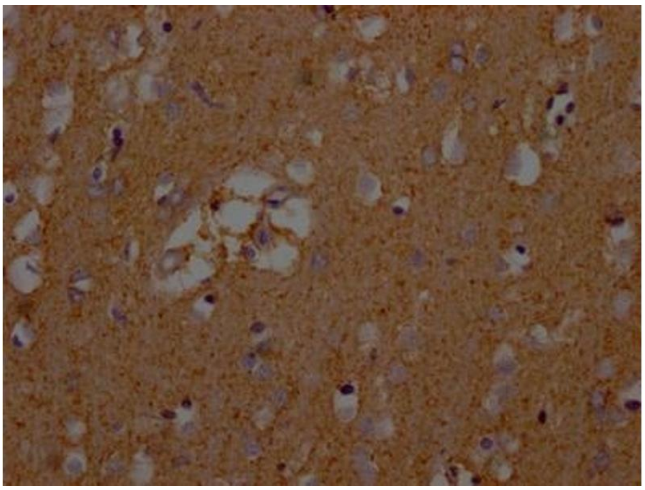
Immunofluorescence

Image 1. Immunofluorescence staining of U251 cells with ABIN7152226 at 1:100, counter-stained with DAPI. The cells were fixed in 4 % formaldehyde and blocked in 10 % normal Goat Serum. The cells were then incubated with the antibody overnight at 4 °C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemistry

Image 2. IHC image of ABIN7152226 diluted at 1:200 and staining in paraffin-embedded human glioma cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10 % normal goat serum 30 min at RT. Then primary antibody (1 % BSA) was incubated at 4 °C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05 % DAB.



Immunohistochemistry

Image 3. IHC image of ABIN7152226 diluted at 1:200 and staining in paraffin-embedded human brain tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10 % normal goat serum 30 min at RT. Then primary antibody (1 % BSA) was incubated at 4 °C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05 % DAB.