

# Anti-EAAT1/SLC1A3 Picoband™ Antibody

Catalog Number: A02133

#### **About SLC1A3**

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.

#### Overview

Product Name	Anti-EAAT1/SLC1A3 Picoband™ Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-EAAT1/SLC1A3 Picoband™ Antibody catalog # A02133. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P43003

#### **Technical Details**

Immunogen	E.coli-derived human EAAT1/SLC1A3 recombinant protein (Position: Q34-D506).
Predicted Reactive Species	Human
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.



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Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.  If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.  Some PubMed article(s) citing the expression level of this target are as follows:  Boster Bio's internal QC testing used:  Western blot, 0.25-0.5ug/ml, Mouse, Rat Flow Cytometry, 1-3ug/1x10 <sup>6</sup> cells, Human  Direct ELISA, 0.1-0.5ug/ml, Human
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### Anti-EAAT1/SLC1A3 Picoband™ Antibody (A02133) Images

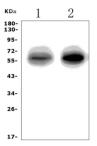


Figure 1. Western blot analysis of SLC1A3 using anti-SLC1A3 antibody (A02133).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: rat brain tissue lysates,

Lane 2: mouse brain tissue lysates.

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SLC1A3 antigen affinity purified polyclonal antibody (Catalog # A02133) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for SLC1A3 at approximately 60KD. The expected band size for SLC1A3 is at 60KD.

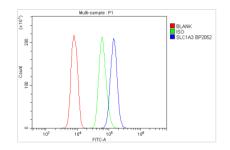


Figure 2. Flow Cytometry analysis of U937 cells using anti-SLC1A3 antibody (A02133).

Overlay histogram showing U937 cells stained with A02133 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SLC1A3 Antibody (A02133, 1ug/1x10 $^6$  cells) for 30 min at 20°C. DyLight® 488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10 $^6$  cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10 $^6$ ) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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Anti-EAAT1/SLC1A3 ™ Antibody