

## Anti-SLC5A4 Antibody Picoband®

Catalog Number: A15467-2

### About SLC5A4

The low affinity sodium-glucose cotransporter also known as the sodium/glucose cotransporter 3 (SGLT3) or solute carrier family 5 member 4 (SLC5A4) is a protein that in humans is encoded by the SLC5A4 gene. Predicted to enable glucose:sodium symporter activity and proton transmembrane transporter activity. Predicted to be involved in sodium ion transport. Predicted to act upstream of or within proton transmembrane transport. Predicted to be active in plasma membrane. Predicted to be integral component of membrane.

### Overview

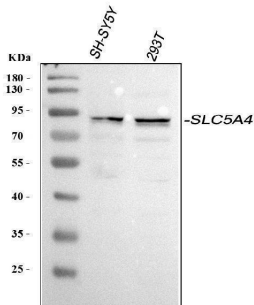
Product Name	Anti-SLC5A4 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-SLC5A4 Antibody Picoband® catalog # A15467-2. Tested in Flow Cytometry, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	Q9NY91

### Technical Details

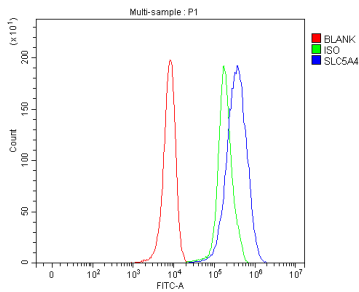
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human SLC5A4.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 µg/ml, Human Flow Cytometry (Fixed), 1-3 ug/1x10 <sup>6</sup> cells, Human

## Anti-SLC5A4 Antibody Picoband® (A15467-2) Images



Western blot analysis of SLC5A4 using anti-SLC5A4 antibody (A15467-2). 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 30 ug of sample under reducing conditions. Lane 1: human SH-SY5Y whole cell lysates, Lane 2: human 293T whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-SLC5A4 antigen affinity purified polyclonal antibody (Catalog # A15467-2) 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 SLC5A4 at approximately 80 kDa. The expected band size for SLC5A4 is at 72 kDa.



Flow Cytometry analysis of 293T cells using anti-SLC5A4 antibody (A15467-2). Overlay histogram showing 293T cells stained with A15467-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SLC5A4 Antibody (A15467-2, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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Anti-SLC5A4 Antibody

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