

Anti-SLC5A8 Antibody Picoband™

Catalog Number: A03883-3

About SLC5A8

Sodium-coupled monocarboxylate transporter 1 is a protein that in humans is encoded by the SLC5A8 gene. SLC5A8 has been shown to transport iodide by a passive mechanism and monocarboxylates and short-chain fatty acids by a sodium-coupled mechanism. In kidney, SLC5A8 functions as a high-affinity sodium-coupled lactate transporter involved in reabsorption of lactate and maintenance of blood lactate levels.

Overview

Product Name	Anti-SLC5A8 Antibody Picoband™
Reactive Species	Human, Mouse
Description	Boster Bio Anti-SLC5A8 Antibody Picoband™ catalog # A03883-3. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
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	Q8N695

Technical Details

Immunogen	E.coli-derived human SLC5A8 recombinant protein (Position: A313-N598).
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.
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, 0.25-0.5 ug/ml, Mouse

Flow Cytometry, 1-3 ug/1x10⁶ cells, Human

Direct ELISA, 0.1-0.5 ug/ml, Human

Anti-SLC5A8 Antibody Picoband™ (A03883-3) Images

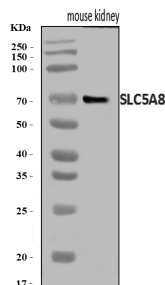


Figure 1. Western blot analysis of SLC5A8 using anti-SLC5A8 antibody (A03883-3).

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: mouse kidney tissue 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-SLC5A8 antigen affinity purified polyclonal antibody (Catalog # A03883-3) 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 SLC5A8 at approximately 67 kDa. The expected band size for SLC5A8 is at 67 kDa.

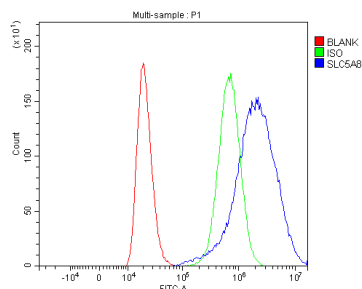


Figure 2. Flow Cytometry analysis of 293T cells using anti-SLC5A8 antibody (A03883-3).

Overlay histogram showing 293T cells stained with A03883-3 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SLC5A8 Antibody (A03883-3, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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