

Anti-epithelial Sodium Channel alpha/SCNN1A Antibody Picoband™

Catalog Number: A01413-2

About SCNN1A

The SCNN1A gene encodes the alpha subunit of the epithelial sodium channel (ENaC), a constitutively active channel that allows the flow of sodium ions from the lumen into epithelial cells across the apical cell membrane. The ENaC channel, which is regulated by the renin-angiotensin-aldosterone system, has a central role in the regulation of extracellular fluid volume and blood pressure. The other subunits are encoded by the beta (SCNN1B), gamma (SCNN1G), and delta (SCNN1D) genes. This SCNN1A gene is mapped to 12p13.31. Mutations in this gene have been associated with pseudohypoaldosteronism type 1 (PHA1), a rare salt wasting disease resulting from target organ unresponsiveness to mineralocorticoids.

Overview

Product Name	Anti-epithelial Sodium Channel alpha/SCNN1A Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-epithelial Sodium Channel alpha/SCNN1A Antibody Picoband™ catalog # A01413-2. Tested in ELISA, WB applications. This antibody reacts with Human.
Application	ELISA, 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	P37088

Technical Details

Immunogen	E.coli-derived human epithelial Sodium Channel alpha/SCNN1A recombinant protein (Position: E8-Q628).
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 µg/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 µg/ml, Human Direct ELISA, 0.1-0.5 µg/ml, Human

Anti-epithelial Sodium Channel alpha/SCNN1A Antibody Picoband™ (A01413-2) Images

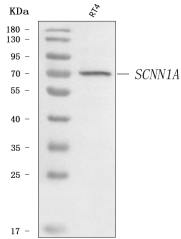


Figure 1. Western blot analysis of Epithelial Sodium Channel Alpha/SCNN1A using anti-Epithelial Sodium Channel Alpha/SCNN1A antibody (A01413-2).

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 RT4 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-Epithelial Sodium Channel Alpha/SCNN1A antigen affinity purified polyclonal antibody (Catalog # A01413-2) 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 Epithelial Sodium Channel Alpha/SCNN1A at approximately 70 kDa. The expected band size for Epithelial Sodium Channel Alpha/SCNN1A is at 76 kDa.

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