BOSTER BIOLOGICAL TECHNOLOGY
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Anti-epithelial Sodium Channel alpha/SCNN1A Antibody Picoband®

Catalog Number: A01413-1

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.

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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 # A01413-1. Tested in IF, ICC, 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	IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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	P37088

Technical Details

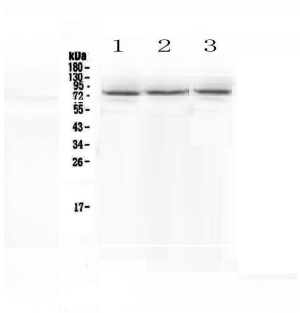
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human SCNN1A, which shares 83.3% amino acid (aa) sequence identity with both mouse and rat SCNN1A.

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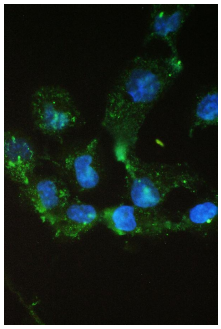
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml Immunocytochemistry/ Immunofluorescence, 2ug/ml

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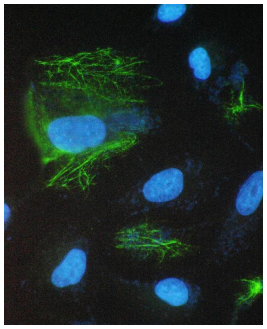
Anti-epithelial Sodium Channel alpha/SCNN1A Antibody Picoband® (A01413-1) Images



Western blot analysis of SCNN1A using anti-SCNN1A antibody (A01413-1). 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: human COLO-320 whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: human A549 whole cell 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-SCNN1A antigen affinity purified polyclonal antibody (Catalog # A01413-1) 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 1:10000 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 SCNN1A at approximately 76KD. The expected band size for SCNN1A is at 76KD.



IF analysis of SCNN1A using anti-SCNN1A antibody (A01413-1). SCNN1A was detected in immunocytochemical section of A431 cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 2ug/mL rabbit anti-SCNN1A Antibody (A01413-1) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IF analysis of SCNN1A using anti-SCNN1A antibody (A01413-1). SCNN1A was detected in immunocytochemical section of A431 cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 2ug/mL rabbit anti-SCNN1A Antibody (A01413-1) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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