

# Human Amiloride-Sensitive Sodium Channel Subunit beta (SCNN1B) ELISA Kit | SCNN1B elisa kit

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CATALOG #  
**AAA330943**

REACTIVITY  
**Human**

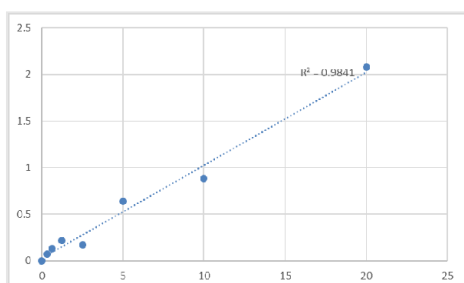
## PRODUCT SYNONYMS

Amiloride-Sensitive Sodium Channel Subunit beta (SCNN1B); Human Amiloride-Sensitive Sodium Channel Subunit beta (SCNN1B) ELISA Kit; SCNN1B; hCG\_23853; BESC1; ENaCb; ENaCbeta; SCNEB; amiloride-sensitive sodium channel subunit beta; epithelial sodium channel beta-2 subunit; epithelial sodium channel beta-3 subunit; nasal epithelial sodium ch; SCNN1B elisa kit

## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | Human Amiloride-sensitive sodium channel subunit beta (SCNN1B) ELISA Kit has high sensitivity and excellent specificity for detection of Human SCNN1B. No significant cross-reactivity or interference between Human SCNN1B and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Sequence Length         | 640                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type              | Sandwich ELISA (Quantitative)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Samples                 | Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Detection Method        | Colorimetric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Usage Notes             | <ul style="list-style-type: none"> <li>* Do not mix components from different kit lots or use reagents beyond the kit expiration date.</li> <li>* Allow all reagents to warm to room temperature for at least 30 minutes before opening.</li> <li>* Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination.</li> <li>* Unused wells must be kept desiccated at 4 degree C in the sealed bag provided.</li> <li>* Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes.</li> <li>* It is recommended that all samples and standards be assayed in duplicate or triplicate.</li> </ul> |
| Preparation and Storage | Store at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## IMAGES



**Standard Curve (Sample)**

Fig.1. Human Amiloride-sensitive sodium channel subunit beta (SCNN1B) Standard Curve.

ADDITIONAL INFORMATION

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for SCNN1B elisa kit | <p>Description: This Human Amiloride-sensitive sodium channel subunit beta (SCNN1B) ELISA Kit employs a two-site sandwich ELISA to quantitate SCNN1B in samples. An antibody specific for SCNN1B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SCNN1B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SCNN1B is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SCNN1B bound in the initial step. The color development is stopped and the intensity of the color is measured.</p> <p>Background: The epithelial sodium channel (short: ENaC, also: sodium channel non-neuronal 1 (SCNN1) or amiloride sensitive sodium channel (ASSC)) is a membrane-bound ion-channel that is permeable for Li+-ions, protons and especially Na+-ions. It is a constitutively active ion-channel. It is arguably the most selective ion channel. Nonvoltage-gated, amiloride-sensitive, sodium channels control fluid and electrolyte transport across epithelia in many organs. These channels are heteromeric complexes consisting of 3 subunits: alpha, beta, and gamma. This SCNN1b encodes the beta subunit, and mutations in this gene have been associated with pseudohypoaldosteronism type 1 (PHA1), and Liddle syndrome.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                 |
|----------------------------------|-------------------------------------------------|
| NCBI GI #                        | 124301196                                       |
| NCBI GeneID                      | 6338                                            |
| NCBI Accession #                 | NP_000327.2                                     |
| NCBI GenBank Nucleotide #        | NP_000327.2                                     |
| UniProt Accession #              | P51168                                          |
| NCBI Official Full Name          | amiloride-sensitive sodium channel subunit beta |
| NCBI Official Synonym Full Names | sodium channel epithelial 1 beta subunit        |
| NCBI Official Symbol             | SCNN1B                                          |
| NCBI Official Synonym Symbols    | BESC1; ENaCb; SCNEB; LIDLS1; ENaCbeta           |
| NCBI Protein Information         | amiloride-sensitive sodium channel subunit beta |
| UniProt Protein Name             | Amiloride-sensitive sodium channel subunit beta |
| UniProt Gene Name                | SCNN1B                                          |
| UniProt Synonym Gene Names       | Beta-ENaC; ENaCB                                |
| UniProt Entry Name               | SCNNB_HUMAN                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.