

## Rabbit SCNN1B Polyclonal Antibody | anti-SCNN1B antibody

SCNN1B Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                       |
|-----------|--------|-------------------|------------------------------------------------------------------------------------|
| AAA326366 | Rabbit | Human, Mouse, Rat | ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

SCNN1B; Polyclonal Antibody; SCNN1B Antibody; Amiloride sensitive sodium channel subunit beta; Amiloride-sensitive sodium channel subunit beta; Beta NaCH; Beta-ENaC; Beta-NaCH; ENaC beta; ENaCB; Epithelial Na(+) channel subunit beta; Epithelial Na<sup>+</sup> channel beta subunit; Epithelial Na<sup>+</sup> channel subunit beta; Epithelial sodium channel beta 2 subunit; Epithelial sodium channel beta 3 subunit; Nonvoltage gated sodium channel 1 beta subunit; Nonvoltage gated sodium channel 1 subunit beta; Nonvoltage-gated sodium channel 1 subunit beta; SCNEB; SCNN 1B; SCNNB\_HUMAN; Sodium channel nonvoltage gated 1 beta (Liddle syndrome); Sodium channel nonvoltage gated 1 beta; anti-SCNN1B antibody

### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                   |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                            |
| Reactivity                                       | Human, Mouse, Rat                                                                                                 |
| Clonality                                        | Polyclonal                                                                                                        |
| Isotype                                          | IgG                                                                                                               |
| Specificity                                      | SCNN1B antibody detects endogenous levels of total SCNN1B                                                         |
| Purity/Purification                              | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                     |
| Form/Format                                      | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                     |
| Concentration                                    | 1mg/ml (varies by lot)                                                                                            |
| Sequence Length                                  | 640                                                                                                               |
| Applicable Applications for anti-SCNN1B antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)          |
| Immunogen                                        | A synthesized peptide derived from human SCNN1B                                                                   |
| Subcellular Location                             | Apical Cell Membrane. Apical membrane of epithelial cells.                                                        |
| Tissue Specificity                               | Detected in placenta, lung and kidney (PubMed:7762608). Expressed in kidney (at protein level) (PubMed:22207244). |
| Predicted Cross Reactivity                       | <b>Rabbit, Dog, Chicken, Xenopus</b>                                                                              |
| Similarity                                       | Rabbit (100%), Dog (92%), Chicken (80%), Xenopus (100%)                                                           |
| Conjugation                                      | Unconjugated                                                                                                      |
| Preparation and Storage                          | Store at -20 degree C. Stable for 12 months from date of receipt.                                                 |

IMAGES



**WB (Western Blot)**  
Western blot analysis of extracts from rat brain, using SCNN1B Antibody.



**IF (Immunofluorescence)**  
AAA326366 staining HepG2 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



**IF (Immunofluorescence)**  
AAA326366 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



**IHC (Immunohistochemistry)**  
AAA326366 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



**WB (Western Blot)**  
Western blot analysis of extracts of PC-3, using SCNN1B antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-SCNN1B antibody</b> | <p>Description: SCNN1B, also named as SCNEB, ENaCB, Beta-NaCH and Beta-ENaC, belongs to the amiloride-sensitive sodium channel (TC 1.A.6) family and SCNN1B subfamily. Sodium permeable non-voltage-sensitive ion channel is inhibited by the diuretic amiloride. SCNN1B mediates the electrodiffusion of the luminal sodium (and water, which follows osmotically) through the apical membrane of epithelial cells. It controls the reabsorption of sodium in kidney, colon, lung and sweat glands. SCNN1B plays a role in taste perception.</p> <p>Function: Sodium permeable non-voltage-sensitive ion channel inhibited by the diuretic amiloride. Mediates the electrodiffusion of the luminal sodium (and water, which follows osmotically) through the apical membrane of epithelial cells. Plays an essential role in electrolyte and blood pressure homeostasis, but also in airway surface liquid homeostasis, which is important for proper clearance of mucus. Controls the reabsorption of sodium in kidney, colon, lung and sweat glands. Also plays a role in taste perception.</p> <p>Subunit Structure: Heterotrimer containing an alpha/SCNN1A, a beta/SCNN1B and a gamma/SCNN1G subunit. An additional delta/SCNN1D subunit exists only in some organisms and can replace the alpha/SCNN1A subunit to form an alternative channel with specific properties (PubMed:7499195, PubMed:16423824). Interacts with NEDD4 (via WW domains) (PubMed:11244092, PubMed:12167593). Interacts with NEDD4L (via WW domains) (PubMed:11244092). Interacts with WWP1 (via WW domains) (PubMed:9169421). Interacts with WWP2 (via WW domains) (PubMed:9169421, PubMed:12167593). Interacts with the full-length immature form of PCSK9 (pro-PCSK9) (PubMed:22493497). Interacts (N-glycosylated) with BPIFA1; the interaction is direct and inhibits the proteolytic processing of SCNN1A and SCNN1G and the activation of ENaC (PubMed:24124190, PubMed:24043776).</p> <p>Post-translational Modifications: Phosphorylated on serine and threonine residues. Aldosterone and insulin increase the basal level of phosphorylation. N-glycosylated. N-glycosylation is required for interaction with BPIFA1.</p> <p>Similarity: Belongs to the amiloride-sensitive sodium channel (TC 1.A.6) family. SCNN1B subfamily.</p> |
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NCBI AND UNIPROT INFORMATION

|             |           |
|-------------|-----------|
| NCBI GI #   | 124301196 |
| NCBI GeneID | 6338      |

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|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI Accession #                 | <a href="#">NP_000327.2</a>                                                                                                                         |
| NCBI GenBank Nucleotide #        | <a href="#">NM_000336.2</a>                                                                                                                         |
| UniProt Accession #              | <a href="#">P51168</a> ; <a href="#">O60891</a> ; <a href="#">Q96KG2</a> ; <a href="#">Q9UJ32</a> ; <a href="#">Q9UMU5</a> ; <a href="#">C5HTZ2</a> |
| Molecular Weight                 | Observed: 73 kDa<br>Predicted: 73 kDa                                                                                                               |
| 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                | <b>SCNN1B</b>                                                                                                                                       |
| UniProt Synonym Gene Names       | Beta-ENaC; ENaCB                                                                                                                                    |

**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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/scnn1b-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326366>