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PRODUCT DATASHEET

# Anti-SCNN1G/Gamma-Subunit Epithelial Sodium Channel Antibody Biotin Conjugate

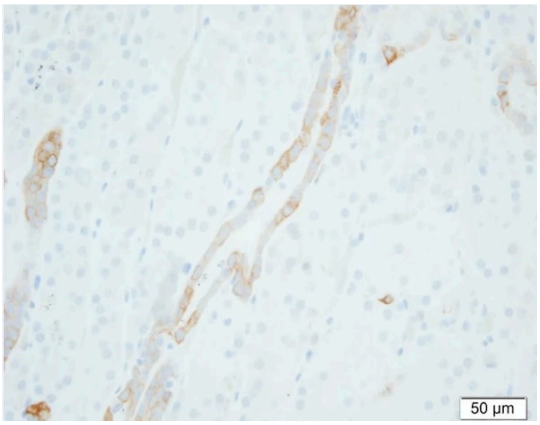
## Product Details

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|---|---|
| **Available Variants** | 150 uL (SKU:CAM 005-02B-015) |
| **Conjugate** | Biotin |
| **Isotype** | IgG1/k |
| **Clone** | 5c2 |
| **Gene Name** | SCNN1G |
| **Host Species** | Mouse |
| **Concentration** | 1 mg/mL ±15% |
| **Format** | Protein A or Protein G purified |
| **Physical State** | Liquid |
| **Buffer** | 0.01 M phosphate buffer, pH 7.4, with 0.14 M NaCl and 15 mM sodium azide |
| **Production Notes** | BSA free |
| **Applications** | ELISA, IHC |
| **Species Reactivity** | Human |
| **Immunogen** | The inhibitory peptide from the human yENaC subunit. EAESWNSVSEGKQPRFSHRIPLC corresponding to amino acid residue 139-160 of human yENaC subunit. |
| **Specificity** | CAM 005-02 is specific for the inhibitory tract of human yENaC subunit. The epitope differs from that of CAM 003-07. |
| **Molecular Weight** | 74 kDa |
| **Storage** | 2-8°C without exposure to light |
| **UniProt ID** | P51170<br>UniProt Summary: This is one of the three pore-forming subunits of the heterotrimeric epithelial sodium channel (ENaC), a critical regulator of sodium balance and fluid homeostasis (PubMed:30251954, PubMed:32729833, |

PubMed:7550319, PubMed:7762608, PubMed:9792722). ENaC operates in epithelial tissues, where it mediates the electrodiffusion of sodium ions from extracellular fluid through the apical membrane of cells, with water following osmotically (PubMed:24124190). It plays a key role in maintaining sodium homeostasis through electrogenic sodium reabsorption in the kidneys (PubMed:12107247, PubMed:7550319, PubMed:8640238). Additionally, ENaC is essential for airway surface liquid homeostasis, which is crucial for proper mucus clearance (PubMed:18507830, PubMed:19017867, PubMed:24124190). {ECO:0000269|PubMed:12107247, ECO:0000269|PubMed:18507830, ECO:0000269|PubMed:19017867, ECO:0000269|PubMed:24124190, ECO:0000269|PubMed:30251954, ECO:0000269|PubMed:32729833, ECO:0000269|PubMed:7550319, ECO:0000269|PubMed:7762608, ECO:0000269|PubMed:8640238, ECO:0000269|PubMed:9792722}.

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| **Country of Origin** | United States |
| **Shipping** | Shipped on ice packs |
| **Expiration** | 12 months from date of receipt |
| **Usage Statement** | These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans. |
| **NCBI Gene ID** | 6340 |

## Product Images




Immunohistochemistry detection of SCNN1G/Gamma-Subunit Epithelial Sodium Channel in human kidney tissue using Anti-SCNN1G/Gamma-Subunit Epithelial Sodium Channel Antibody (Cat.CAM 005-02B-015). Tissue was mounted and pariffin fixed. Heat induced antigen retrieval was performed using citrate buffer, heated, and then blocked. After washing, the primary antibody (Cat.CAM 005-02B-015) was incubated with the sample. Courtesy of Per Svenningsen, PhD.