

## Rabbit anti-Rat, Mouse ENaC Alpha Polyclonal Antibody | anti-Scnn1a antibody

ENaC Alpha Antibody: ATTO 488

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                           |
|-----------|--------|------------|--------------------------------------------------------|
| AAA103706 | Rabbit | Rat, Mouse | Immunofluorescence, Immunohistochemistry, Western Blot |

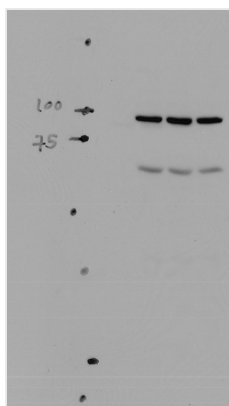
### PRODUCT SYNONYMS

ENaC Alpha; Polyclonal Antibody; ENaC Alpha Antibody: ATTO 488; Scnn1a; anti-Scnn1a antibody

### PRODUCT SPECIFICATIONS

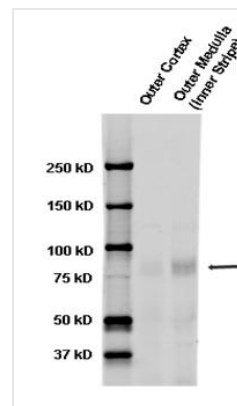
|                                                  |                                                                        |
|--------------------------------------------------|------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                 |
| Reactivity                                       | Rat, Mouse                                                             |
| Clonality                                        | Polyclonal                                                             |
| Form/Format                                      | Affinity Purified                                                      |
| Concentration                                    | 1mg/mL (varies by lot)                                                 |
| Sequence Length                                  | 699                                                                    |
| Applicable Applications for anti-Scnn1a antibody | IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot) |
| Conjugate                                        | ATTO 488                                                               |
| Storage Buffer                                   | PBS, 50% glycerol, 0.09% sodium azide.                                 |
| Preparation and Storage                          | -20 degree C                                                           |

### IMAGES



#### WB (Western Blot)

Western blot analysis of Mouse kidney tissue lysates showing detection of ENaC protein using Rabbit Anti-ENaC Polyclonal Antibody (SPC-403). Primary Antibody: Rabbit Anti-ENaC Polyclonal Antibody (SPC-403) at 1:1000.



#### WB (Western Blot)

Western blot analysis of Rat kidney tissue lysates showing detection of ENaC protein using Rabbit Anti-ENaC Polyclonal Antibody (SPC-403). Primary Antibody: Rabbit Anti-ENaC Polyclonal Antibody (SPC-403) at 1:1000.

## ADDITIONAL INFORMATION

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|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-Scnn1a antibody | <p><b>Background Info:</b> Detects ~85kDa</p> <p><b>Scientific Background:</b> The Epithelial Sodium Channel (ENaC) is a membrane ion channel permeable to Na<sup>+</sup> ions. It is located in the apical plasma membrane of epithelia in the kidneys, lung, colon, and other tissues where it plays a role in trans epithelial Na<sup>+</sup>-ion transport (1). Specifically Na<sup>+</sup> transport via ENaC occurs across many epithelial surfaces, and plays a key role in regulating salt and water absorption (2). ENaCs are composed of three structurally related subunits that form a tetrameric channel, alpha, beta, and gamma. The expression of its alpha and beta subunits is enhanced as keratinocytes differentiate (3, 4). The beta and gamma-ENaC subunits are essential for edema fluid to exert its maximal effect on net fluid absorption by distal lung epithelia(5). And it has been concluded that the subunits are differentially expressed in the retina of mice with ocular hypertension, therefore the up-regulation of alpha-ENaC proteins could serve as a protection mechanism against elevated intraocular pressure (6).</p> |
| Product Categories/Family for anti-Scnn1a antibody   | <a href="#">Ion Channels</a> ; <a href="#">Transporters</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| References                                           | 1. Kakizoe Y., et al. (2009) J Hypertens. 27(8): 1679-1689. 2. Gu Y. (2008) J Cell Physiol. 216(2):453-457. 3. Bruns J.B. (2003) Am J Physiol Renal Physiol. 285(4): F600-F609. 4. Mauro T., et al. (2002) J Invest Dermatol. 118(4): 589-594. 5. Elias N., et al. (2007) Am J Physiol Lung Cell Mol Physiol. 293(3): L537-45. 6. Dyka F.M., May C.A. and Enz R. (2005) J Neurochem. 94(1): 120-128.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                                                              |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">13928742</a>                                                                                                                                                                                                                                                                                     |
| NCBI GeneID                      | <a href="#">25122</a>                                                                                                                                                                                                                                                                                        |
| NCBI Accession #                 | <a href="#">NP_113736</a>                                                                                                                                                                                                                                                                                    |
| NCBI GenBank Nucleotide #        | <a href="#">NM_031548.2</a>                                                                                                                                                                                                                                                                                  |
| UniProt Accession #              | <a href="#">Q6IRJ1</a> ; <a href="#">P37089</a>                                                                                                                                                                                                                                                              |
| Molecular Weight                 | 79,019 Da                                                                                                                                                                                                                                                                                                    |
| NCBI Official Full Name          | amiloride-sensitive sodium channel subunit alpha                                                                                                                                                                                                                                                             |
| NCBI Official Synonym Full Names | sodium channel, non-voltage-gated 1 alpha subunit                                                                                                                                                                                                                                                            |
| NCBI Official Symbol             | Scnn1a                                                                                                                                                                                                                                                                                                       |
| NCBI Protein Information         | amiloride-sensitive sodium channel subunit alpha; SCNEA; alpha-ENaC; alpha-NaCH; epithelial Na(+) channel subunit alpha; epithelial sodium channel alpha subunit; sodium channel, nonvoltage-gated 1 alpha; nonvoltage-gated sodium channel 1 subunit alpha; sodium channel, nonvoltage-gated, type I, alpha |
| UniProt Protein Name             | Amiloride sensitive sodium channel alpha1 subunit                                                                                                                                                                                                                                                            |
| UniProt Gene Name                | <b>Scnn1a</b>                                                                                                                                                                                                                                                                                                |
| UniProt Synonym Gene Names       | rCG_30182                                                                                                                                                                                                                                                                                                    |
| UniProt Entry Name               | Q6IRJ1_RAT                                                                                                                                                                                                                                                                                                   |

**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://www.aaabiotech.com/polyclonal/enac-alpha-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/103706>