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

Related Product Information for anti-Scnn1a antibody	**Background Info:** Detects ~85kDa **Scientific Background:** The Epithelial Sodium Channel (ENaC) is a membrane ion channel permeable to Na+ 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+-ion transport (1). Specifically Na+ 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).

Product Categories/Family for anti-Scnn1a antibody	Ion Channels; Transporters
References	1. Kakizoe Y., et al. (2009) J Hpyertens. 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 #	13928742
NCBI GeneID	25122
NCBI Accession #	NP_113736
NCBI GenBank Nucleotide #	NM_031548.2
UniProt Accession #	Q6IRJ1; P37089
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	**Scnn1a**
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://stage.aaabiotech.com/polyclonal/enac-alpha-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/103706