Rabbit anti-Mouse, Rat ENaC Beta Polyclonal Antibody | anti-Scnn1b antibody

ENaC Beta Antibody: Biotin

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA103673	**Rabbit**	**Mouse, Rat**	**Immunofluorescence, Immunoprecipitation, Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

ENaC Beta; Polyclonal Antibody; ENaC Beta Antibody: Biotin; Scnn1b; anti-Scnn1b antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Form/Format	Affinity Purified
Concentration	1mg/mL (varies by lot)
Sequence Length	638
Applicable Applications for anti-Scnn1b antibody	IF (Immunofluorescence), IP (Immunoprecipitation), IHC (Immunohistochemistry), WB (Western Blot)
Conjugate	Biotin
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 cortex showing detection of ENaC protein using Rabbit Anti-ENaC Polyclonal Antibody (SPC-404). Primary Antibody: Rabbit Anti-ENaC Polyclonal Antibody (SPC-404) at 1:1000. Low-salt diet (lanes 1-4) compared to a high-salt diet (lanes 5-8).

WB (Western Blot)
Western blot analysis of Mouse mpkCCD cell lysates showing detection of ENaC protein using Rabbit Anti-ENaC Polyclonal Antibody (SPC-404). Primary Antibody: Rabbit Anti-ENaC Polyclonal Antibody (SPC-404) 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-404). Primary Antibody: Rabbit Anti-ENaC Polyclonal Antibody (SPC-404) at 1:1000.

IHC (Immunohistochemistry)
Immunohistochemistry analysis using Rabbit Anti-ENaC Polyclonal Antibody (SPC-404). Tissue: kidney tissue. Species: Rat. Primary Antibody: Rabbit Anti-ENaC Polyclonal Antibody (SPC-404) at 1:100. Secondary Antibody: FITC Goat Anti-Rabbit (green).

ADDITIONAL INFORMATION

Related Product Information for anti-Scnn1b antibody	**Background Info:** Detects ~87kDa. **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-Scnn1b 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. 1. Ilatovskaya, D.V., Pavlov, T.S., Levchenko, V., Negulyaev, Y.A. and Staruschenko, A. (2011). Cortical actin binding protein cortactin mediates ENaC activity via Arp2/3 complex. The FASEB Journal. 25 (8), 2688-2699. doi: 10.1096/fj.10-167262 2. Edinger, R.S. et al. (2012). The Epithelial Sodium Channel (ENaC) Establishes a Trafficking Vesicle Pool Responsible for Its Regulation. PLoS ONE. 7(9): e46593. doi: 10.1371/journal.pone.0046593 3. van der Lubbe, N. et al. (2012). Aldosterone does not require angiotensin II to activate NCC through a WNK4–SPAK–dependent pathway. Euro J Physiol. 463 (6), 853-863. doi:10.1007/s00424-012-1104-0

NCBI AND UNIPROT INFORMATION

NCBI GI #	25742736
NCBI GeneID	24767
NCBI Accession #	NP_036780
NCBI GenBank Nucleotide #	NM_012648.1
UniProt Accession #	P37090; O09183
Molecular Weight	71,995 Da
NCBI Official Full Name	amiloride-sensitive sodium channel subunit beta
NCBI Official Synonym Full Names	sodium channel, non-voltage-gated 1, beta subunit
NCBI Official Symbol	Scnn1b
NCBI Official Synonym Symbols	RNENACB
NCBI Protein Information	amiloride-sensitive sodium channel subunit beta; SCNEB; beta-ENaC; beta-NaCH; epithelial Na(+) channel subunit beta; sodium channel, nonvoltage-gated 1, beta; nonvoltage-gated sodium channel 1 subunit beta; sodium channel, nonvoltage-gated, type I, beta
UniProt Protein Name	Amiloride-sensitive sodium channel subunit beta
UniProt Gene Name	**Scnn1b**
UniProt Synonym Gene Names	Beta-ENaC
UniProt Entry Name	SCNNB_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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