Mouse anti-Mouse ENaC beta Monoclonal Antibody | anti-ENaC beta antibody

ENaC beta Antibody, Clone 7B8: RPE

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA103904	**Mouse**	**Mouse**	**Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

ENaC beta; Monoclonal Antibody; ENaC beta Antibody; Clone 7B8: RPE; Mouse Anti-Rat ENaC beta Monoclonal IgG1; SCNN1B Antibody; Amiloride sensitive sodium channel subunit beta Antibody; Amiloride-sensitive sodium channel beta-subunit Antibody; Beta ENaC Antibody; Beta NaCH Antibody; ENaCB Antibody; Epithelial Na(+) channel subunit beta Antibody; Epithelial Na+ channel beta subunit Antibody; Epithelial Na+ channel subunit beta Antibody; Epithelial sodium channel beta 2 subunit Antibody; Epithelial sodium channel beta 3 subunit Antibody; Nonvoltage gated sodium channel 1 beta subunit Antibody; Nonvoltage gated sodium channel 1 subunit beta Antibody; Nonvoltage-gated sodium channel 1 beta subunit Antibody; SCNEB Antibody; SCNN 1B Antibody; Sodium channel nonvoltage gated 1 beta (Liddle syndrome) Antibody; Sodium channel nonvoltage gated 1 beta Antibody; anti-ENaC beta antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	7B8
Specificity	Detects ~87kDa.
Purity/Purification	Protein G Purified
Concentration	1 mg/ml (varies by lot)
Sequence Length	638
Applicable Applications for anti-ENaC beta antibody	IHC (Immunohistochemistry), WB (Western Blot)
Target	ENaC beta
Immunogen	Synthetic peptide from the C-terminal of Rat ENaC beta (aa. 617-638)
Immunogen Species	Rat
Cellular Localization	Apical Cell Membrane
Conjugate	RPE
Storage Buffer	PBS pH7.4, 50% glycerol, 0.09% sodium azide
Preparation and Storage	Store at -20 degree C.

IMAGES

WB (Western Blot)
Western Blot analysis of Mouse Whole kidney homogenates showing detection of ~87kDa ENaC beta protein using Mouse Anti-ENaC beta Monoclonal Antibody, Clone 7B8. Lane 1: Molecular Weight Ladder (MW). Lane 2: Low-salt diet. Lane 3: Normal-salt diet. Load: 20 ug. Primary Antibody: Mouse Anti-ENaC beta Monoclonal Antibody at 1:1000. Predicted/Observed Size: ~87kDa.

IHC (Immunohistochemistry)
Immunohistochemistry analysis using Mouse Anti-ENaC beta Monoclonal Antibody, Clone 7B8. Tissue: Kidney (cortex). Species: Mouse. Primary Antibody: Mouse Anti-ENaC beta Monoclonal Antibody at 1:150. Localization: Collecting duct principal cells. Magnification: 60X.

ADDITIONAL INFORMATION

Related Product Information for anti-ENaC beta antibody	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-ENaC beta antibody	Antibodies; Neuroscience; Ion Channels; Sodium Channels; Epithelial Sodium Channels (ENaC)
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 #	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 epithelial 1 beta subunit
NCBI Official Symbol	Scnn1b
NCBI Official Synonym Symbols	RNENACB
NCBI Protein Information	amiloride-sensitive sodium channel subunit beta
UniProt Protein Name	Amiloride-sensitive sodium channel subunit beta
UniProt Gene Name	**Scnn1b**
UniProt Synonym Gene Names	Beta-ENaC

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/monoclonal/enac-beta-antibody-clone-7b8-immunohistochemistry-western-blot-elisa/103904