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Anti-ENaC Beta Antibody [7B8]

Mouse Anti-Rat ENaC beta Monoclonal IgG1
Catalog No. SMC-240



Discovery through partnership | Excellence through quality

Overview

Product Name

ENaC beta Antibody

Description

Mouse Anti-Rat ENaC beta Monoclonal IgG1

Species Reactivity

Mouse

Applications

WB, IHC

Antibody Dilution

WB (1:1000); IHC (1:150); optimal dilutions for assays should be determined by the user.

Host Species

Mouse

Immunogen Species

Rat

Immunogen

Synthetic peptide from the C-terminal of Rat ENaC beta (aa. 617-638)

Concentration

1 mg/ml

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

PBS pH7.4, 50% glycerol, 0.09% sodium azide

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

7B8

Isotype

IgG1

Specificity

Detects ~87kDa.

Cite This Product

Mouse Anti-Rat ENaC beta Monoclonal (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-240)

Certificate Of Analysis

A 1:1000 dilution of SMC-240 was sufficient for detection of ENaC beta in 15 µg of Mouse whole kidney lysate by ECL immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

SCNN1B Antibody, Amiloride sensitive sodium channel subunit beta Antibody, Amiloride-sensitive sodium channel beta-subunit Antibody, Beta ENaC Antibody, Beta NaCH Antibody, ENaC beta 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

Research Areas

Epithelial Sodium Channels (ENaC), Ion Channels, Neuroscience, Sodium Channels

Cellular Localization

Apical cell membrane

Accession Number

NP_036780

Gene ID

24767

Swiss Prot

P37090

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).

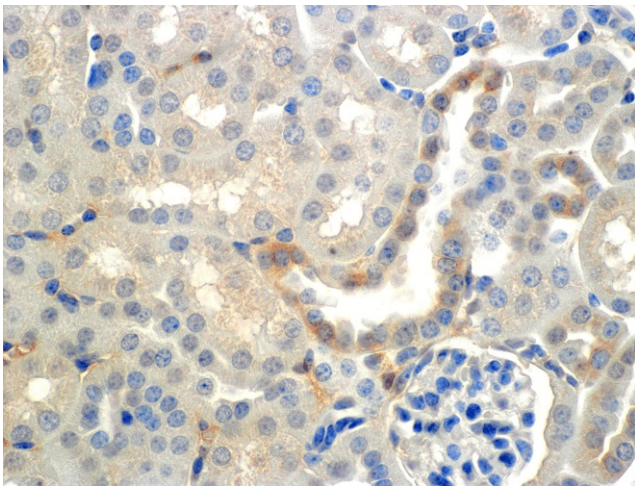
ENaCs are composed of three structurally related subunits that form a tetrameric channel, alpha, beta, and gamma. The

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).

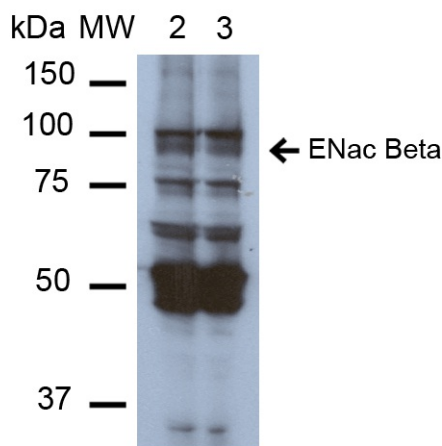
References

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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.

Product Images



Immunohistochemistry analysis using Mouse Anti-ENaC beta Monoclonal Antibody, Clone 7B8 (SMC-240). Tissue: Kidney (cortex). Species: Mouse. Primary Antibody: Mouse Anti-ENaC beta Monoclonal Antibody (SMC-240) at 1:150. Localization: Collecting duct principal cells. Magnification: 60X.



Western Blot analysis of Mouse Whole kidney homogenates showing detection of ~87kDa ENaC beta protein using Mouse Anti-ENaC beta Monoclonal Antibody, Clone 7B8 (SMC-240). Lane 1: Molecular Weight Ladder (MW). Lane 2: Low-salt diet. Lane 3: Normal-salt diet. Load: 20 µg. Primary Antibody: Mouse Anti-ENaC beta Monoclonal Antibody (SMC-240) at 1:1000. Predicted/Observed Size: ~87kDa.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.