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Anti-ENaC Alpha Antibody [14E10]

Mouse Anti-Rat ENaC alpha Monoclonal IgG1
Catalog No. SMC-242



Discovery through partnership | Excellence through quality

Overview

Product Name

ENaC alpha Antibody

Description

Mouse Anti-Rat ENaC alpha Monoclonal IgG1

Species Reactivity

Mouse, Rat

Applications

WB, ICC/IF

Antibody Dilution

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

Host Species

Mouse

Immunogen Species

Rat

Immunogen

Synthetic peptide from the N-terminal of Rat ENaC alpha (aa. 46-68)

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

14E10

Isotype

IgG1

Specificity

Detects ~85kDa.

Cite This Product

Mouse Anti-Rat ENaC alpha Monoclonal (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-242)

Certificate Of Analysis

A 1:1000 dilution of SMC-242 was sufficient for detection of ENaC alpha 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

SCNN1A Antibody, Epithelial Sodium Channel-? Antibody, Epithelial Sodium Channel alpha Antibody, Alpha ENaC 2 Antibody, Alpha ENaC Antibody, Alpha NaCH Antibody, Alpha-ENaC Antibody, Amiloride sensitive epithelial sodium channel alpha subunit Antibody, Amiloride sensitive sodium channel subunit alpha Antibody, Amiloride-sensitive sodium channel subunit alpha Antibody, ENaCa Antibody, ENaCalpha Antibody, Epithelial Na(+) channel subunit alpha Antibody, Epithelial Na+ channel subunit alpha Antibody, FLJ21883 Antibody, Nonvoltage gated sodium channel 1 subunit alpha Antibody, Nonvoltage-gated sodium channel 1 subunit alpha Antibody, SCNEA Antibody, SCNN 1 Antibody, SCNN1 Antibody, SCNN1A Antibody, SCNNA_HUMAN Antibody, Sodium channel nonvoltage gated 1 alpha Antibody

Research Areas

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

Cellular Localization

Apical cell membrane

Accession Number

NP_113736

Gene ID

25122

Swiss Prot

Q6IRJ1

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).

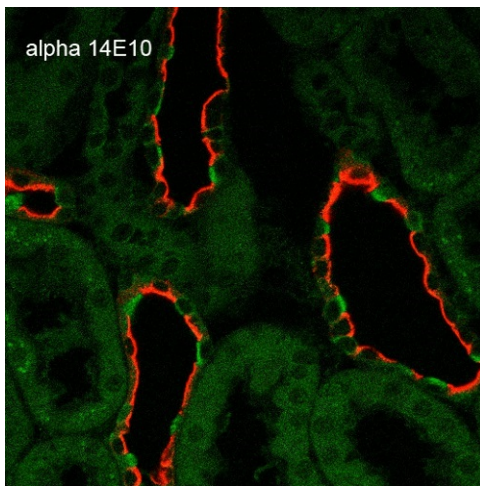
ENaCs are composed of three structurally related subunits that form a tetrameric channel, alpha, beta, and gamma. The

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).

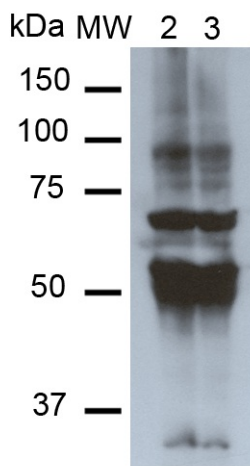
References

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.

Product Images



Immunohistochemistry analysis using Mouse Anti-ENaC alpha Monoclonal Antibody, Clone 14E10 (SMC-242). Tissue: Kidney. Species: Rat. Fixation: Paraffin-embedded formalin-fixed. Primary Antibody: Mouse Anti-ENaC alpha Monoclonal Antibody (SMC-242) at 1:100. Secondary Antibody: Goat Anti-Mouse ATTO 488 (green). Localization: Intercalated cells. Aquaporin 2 Antibody staining in red.



Western Blot analysis of Mouse Whole kidney homogenates showing detection of ~85kDa ENaC alpha protein using Mouse Anti-ENaC alpha Monoclonal Antibody, Clone 14E10 (SMC-242). Lane 1: Molecular Weight Ladder (MW). Lane 2: Low-salt diet. Lane 3: Normal-salt diet. Load: 20 µg. Primary Antibody: Mouse Anti-ENaC alpha Monoclonal Antibody (SMC-242) at 1:1000. Predicted/Observed Size: ~85kDa.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.