antibodies

Datasheet for ABIN863203 anti-SCNN1A antibody (AA 617-638)

5 Images

19 Publications



Overview

Quantity:	100 µg
Target:	SCNN1A
Binding Specificity:	AA 617-638
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SCNN1A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP), Immunocytochemistry (ICC)

Product Details

Immunogen:	Produced against the C-terminal tail (amino acids 617-638) of rat beta ENaC (antibody designation 3755-2)
Specificity:	Detects ~87 kDa.
Cross-Reactivity:	Hamster, Human, Mouse, Rat, Xenopus laevis
Purification:	Protein A Purified
Target Details	
Target:	SCNN1A
Alternative Name:	ENaC (SCNN1A Products)

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Target Details

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).
Gene ID:	24767
NCBI Accession:	NP_036780
UniProt:	P37090

Application Details

Application Notes:	 WB (1:1000) IHC (1:100) optimal dilutions for assays should be determined by the user.
Comment:	1 μg/ml of ABIN863203 was sufficient for detection of beta-ENaC in 20 μg of rat kidney tissue lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

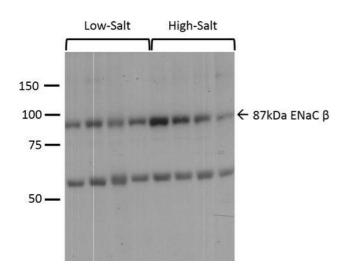
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Handling	
Storage:	-20 °C
Storage Comment:	-20°C
Publications	
Product cited in:	Voth, Gwin, Francis, Balczon, Frank, Pittet, Wagener, Moser, Alexeyev, Housley, Audia, Piechocki,
	Madera, Simmons, Crawford, Stevens: "Virulent Pseudomonas aeruginosa infection converts
	antimicrobial amyloids into cytotoxic prions." in: FASEB journal : official publication of the
	Federation of American Societies for Experimental Biology, Vol. 34, Issue 7, pp. 9156-9179, (
	2020) (PubMed).

Epelbaum, Youssef, Lacor, Chaurand, Duplus, Brugg, Duyckaerts, Delatour: "Acute amnestic encephalopathy in amyloid-β oligomer-injected mice is due to their widespread diffusion in vivo. " in: **Neurobiology of aging**, Vol. 36, Issue 6, pp. 2043-52, (2015) (PubMed).

There are more publications referencing this product on: Product page

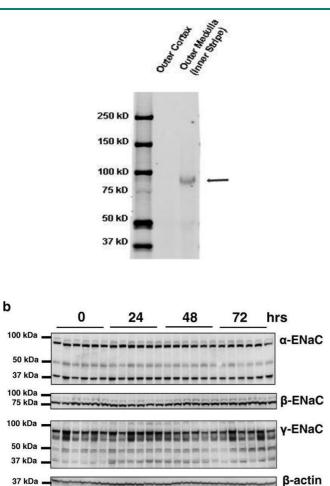




Western Blotting

Image 1. Western blot analysis of Mouse kidney cortex showing detection of ENaC protein using Rabbit Anti-ENaC Polyclonal Antibody (ABIN863203). Primary Antibody: Rabbit Anti-ENaC Polyclonal Antibody (ABIN863203) at 1:1000. Low-salt diet (lanes 1-4) compared to a high-salt diet (lanes 5-8).

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Western Blotting

Image 2. ENaC beta, rat kidney tissue.

Western Blotting

Image 3. The expression of ENaC subunits after preservation in UW solution. a RT-PCR analysis of mRNA expression of α -, β -, and γ -ENaC subunits after cold static preservation in UW solution for different time points, n=6 kidneys (1 kidney/rat) in each group. b Western blot analysis of ENaC expression in kidney total lysates isolated from SD rats after cold static kidney preservation in UW solution for 0, 24, 48, and 72 h. Each lane represents one kidney - figure provided by CiteAb. Source: PMID31035971

Please check the product details page for more images. Overall 5 images are available for ABIN863203.