antibodies

# Datasheet for ABIN2486410 anti-SCNN1A antibody (AA 617-638) (Biotin)





Overview

Quantity:	100 µg
Target:	SCNN1A
Binding Specificity:	AA 617-638
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SCNN1A antibody is conjugated to Biotin
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

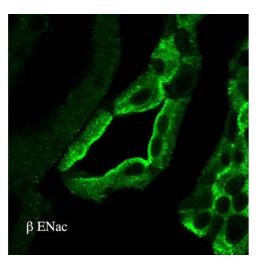
Application Notes:	<ul> <li>WB (1:1000)</li> <li>IHC (1:100)</li> <li>optimal dilutions for assays should be determined by the user.</li> </ul>
Comment:	1 μg/ml of ABIN2486410 was sufficient for detection of beta-ENaC in 20 μg of rat kidney tissue lysate by colorimetric immunoblot analysis using Goat 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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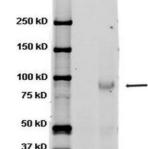
#### Handling

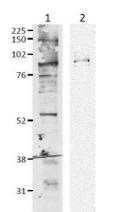
Storage:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C

### Images









#### Immunohistochemistry

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

#### Western Blotting

**Image 2.** Western blot analysis of Rat kidney tissue lysates showing detection of ENaC protein using Rabbit Anti-ENaC Polyclonal Antibody . Primary Antibody: Rabbit Anti-ENaC Polyclonal Antibody at 1:1000.

#### **Western Blotting**

**Image 3.** Western blot analysis of Mouse mpkCCD cell lysates showing detection of ENaC protein using Rabbit Anti-ENaC Polyclonal Antibody . Primary Antibody: Rabbit Anti-ENaC Polyclonal Antibody at 1:1000.

1- mpkCCD cell lysate (mouse) 2- FRT expressing tagged  $\beta$ -mENaC

Please check the product details page for more images. Overall 4 images are available for ABIN2486410.

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