Datasheet for ABIN2486348

anti-SCNN1A antibody (AA 46-68) (PE)

3 Images

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Overview

Quantity:	100 µg
Target:	SCNN1A
Binding Specificity:	AA 46-68
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SCNN1A antibody is conjugated to PE
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP), Immunocytochemistry (ICC)

Product Details

Immunogen:	Produced against a synthetic peptide mapping to the N-terminal of the alpha subunit (amino acids 46-68) of rat Alpha ENaC (antibody designation 3560-2).
Specificity:	Detects ~85 kDa.
Cross-Reactivity:	Human, Mouse, Rat, Xenopus laevis
Purification:	Protein A Purified

Target Details

Target:	SCNN1A
Alternative Name:	ENaC (SCNN1A Products)

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, α, β, and γ. 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:	25122
NCBI Accession:	NP_113736
UniProt:	Q6IRJ1

Application Details

Application Notes:	• WB (1:1000) • ICC/IF (1:400) • IHC (1:25) • optimal dilutions for assays should be determined by the user.
Comment:	1 µg/ml of ABIN2486348 was sufficient for detection of alpha-ENaC in 35 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

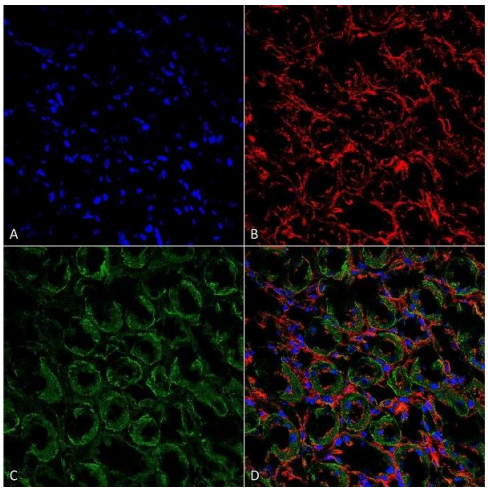
Handling

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.

Handling

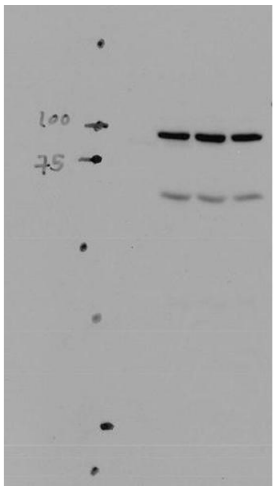
Storage:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C

Images



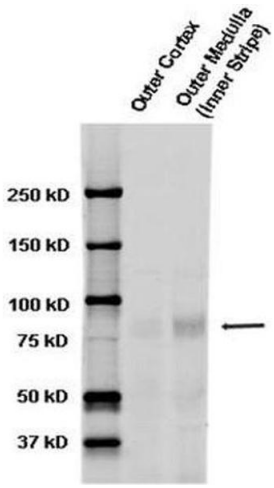
Immunohistochemistry

Image 1. Immunohistochemistry analysis using Rabbit Anti-ENaC Polyclonal Antibody (ABIN2486348). Tissue: kidney tissue. Species: Rat. Fixation: Formalin Fixed Paraffin-Embedded. Primary Antibody: Rabbit Anti-ENaC Polyclonal Antibody (ABIN2486348) at 1:25 for 1 hour at RT. Secondary Antibody: Goat Anti-Rabbit IgG: Alexa Fluor 488. Counterstain: Actin-binding Phalloidin-Alexa Fluor 633, DAPI (blue) nuclear stain. Magnification: 63X. (A) DAPI (blue) nuclear stain. (B) Phalloidin Alex Fluor 633 F-Actin stain. (C)ENaC Antibody (D) Composite



Western Blotting

Image 2. Western blot analysis of Mouse 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 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.