

Datasheet for ABIN5066870

anti-SCNN1A antibody (AA 46-68) (HRP)[Go to Product page](#)**3** Images

Overview

Quantity:	100 µg
Target:	SCNN1A
Binding Specificity:	AA 46-68
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SCNN1A antibody is conjugated to HRP
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Synthetic peptide from the N-terminal of Rat ENaC alpha (aa. 46-68)
Clone:	2G4
Isotype:	IgG2b
Specificity:	Detects ~85 kDa.
Cross-Reactivity:	Mouse, Rat
Purification:	Protein G Purified

Target Details

Target:	SCNN1A
Alternative Name:	ENaC alpha (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, 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: 25122

NCBI Accession: [NP_113736](#)

UniProt: [Q6IRJ1](#)

Application Details

Application Notes:

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

Comment: A 1:1000 dilution of ABIN5066870 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.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated

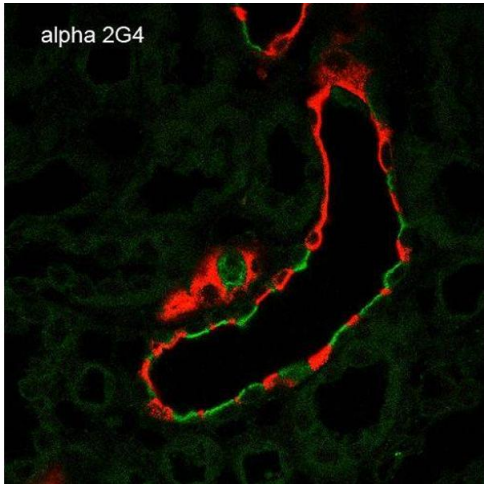
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

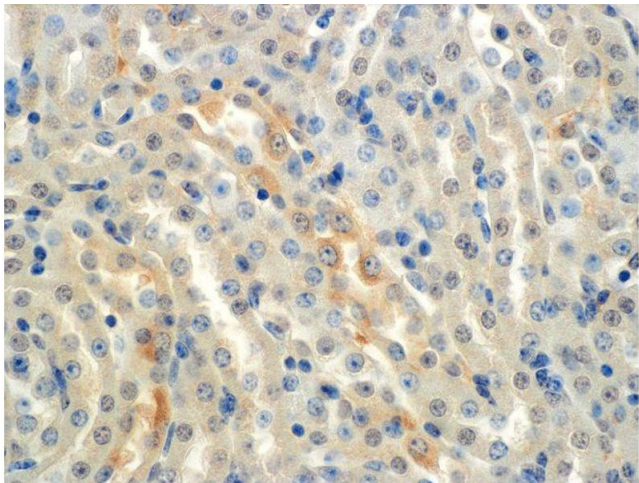
Storage:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C

Images



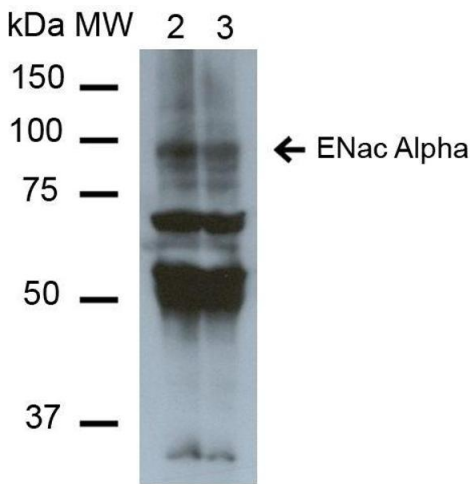
Immunohistochemistry

Image 1. Immunohistochemistry analysis using Mouse Anti-ENaC alpha Monoclonal Antibody, Clone 2G4 . Tissue: Kidney. Species: Rat. Fixation: Paraffin-embedded formalin-fixed. Primary Antibody: Mouse Anti-ENaC alpha Monoclonal Antibody at 1:100. Secondary Antibody: Goat Anti-Mouse ATTO 488 (green). Localization: Intercalated cells. Aquaporin 2 Antibody staining in red.



Immunohistochemistry

Image 2. Immunohistochemistry analysis using Mouse Anti-ENaC alpha Monoclonal Antibody, Clone 2G4 . Tissue: Kidney (cortex). Species: Mouse. Primary Antibody: Mouse Anti-ENaC alpha Monoclonal Antibody at 1:150. Localization: Collecting duct principal cells. Magnification: 60X.



Western Blotting

Image 3. Western Blot analysis of Mouse Whole kidney homogenates showing detection of ~85kDa ENaC alpha protein using Mouse Anti-ENaC alpha Monoclonal Antibody, Clone 2G4 . 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 at 1:1000. Predicted/Observed Size: ~85kDa.