

# Datasheet for ABIN5066857 anti-SCNN1A antibody (AA 46-68)





Go to Product page

## Overview

Alternative Name:

Quantity:	100 μg				
Target:	SCNN1A				
Binding Specificity:	AA 46-68				
Reactivity:	Rat				
Host:	Mouse				
Clonality:	Monoclonal				
Conjugate:	This SCNN1A antibody is un-conjugated				
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:	lgG2b				
Specificity:	Detects ~85 kDa.				
Cross-Reactivity:	Mouse, Rat				
Purification:	Protein G Purified				
Target Details					
Target:	SCNN1A				

ENaC alpha (SCNN1A Products)

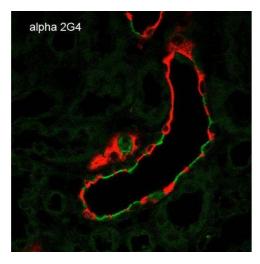
# **Target Details**

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)				
	<ul> <li>optimal dilutions for assays should be determined by the user.</li> </ul>				
Comment:	A 1:1000 dilution of ABIN5066857 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

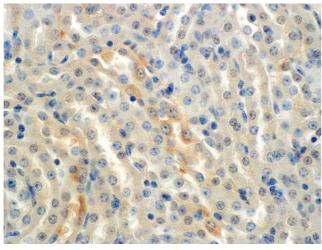
Storage:	-20 °C		
Storage Comment:	-20°C		

#### **Images**



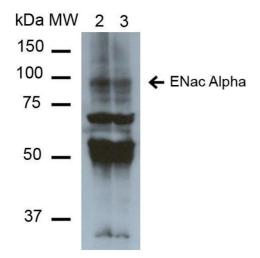
#### **Immunohistochemistry**

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.