

Datasheet for ABIN5066869

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





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Overview

Alternative Name:

Quantity:	100 μg
Target:	SCNN1A
Binding Specificity:	AA 46-68
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SCNN1A antibody is conjugated to FITC
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)

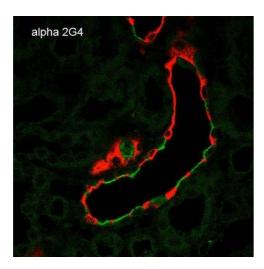
Target Details

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
	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:
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 ABIN5066869 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.

Storage: 4 °C

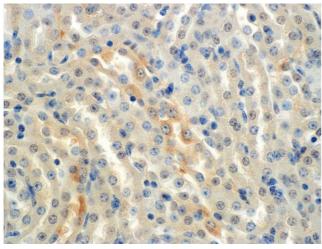
Storage Comment: Conjugated antibodies should be stored at 4°C

Images



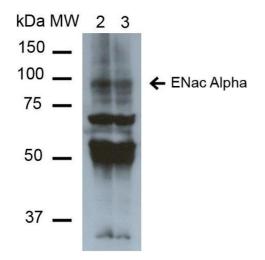
Immunohistochemistry

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.