

Datasheet for ABIN7043636

anti-SCNN1G antibody (Extracellular)



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1 Image

Overview

Quantity:	50 µL
Target:	SCNN1G
Binding Specificity:	AA 129-142, Extracellular
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SCNN1G antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to ENaC γ Channel
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)YGVKESRKRREAGS, corresponding to amino acid residues 129-142 of rat ENaC γ
Isotype:	IgG
Specificity:	Extracellular
Predicted Reactivity:	Human - 13,17 amino acid residues identical
Characteristics:	Anti-ENaC γ (SCNN1G) Antibody (ABIN7043636 and ABIN7045233) is a highly specific antibody directed against an epitope of the rat protein. The antibody can be used in western blot and immunohistochemistry applications. The antibody recognizes an extracellular domain and can potentially detect the channel in living cells. It has been designed to recognize ENaC γ from rat

Product Details

and human samples.

Purification: Affinity purified on immobilized antigen.

Target Details

Target: SCNN1G

Alternative Name: SCNN1G ([SCNN1G Products](#))

Background: Amiloride-sensitive sodium channel subunit gamma, Epithelial sodium channel γ subunit, Gamma-ENaC, Gamma-NaCH, Nonvoltage-gated sodium channel 1 subunit gamma, SCNEG, The amiloride-sensitive epithelial Na^+ channel (ENaCs) family includes 4 members: ENaC α , β , γ and δ . The ENaC channel is located in the luminal (apical) plasma membrane of several epithelial tissues such as kidney, lung, salivary glands and skin. The functional channel is believed to be a multimer including a α (or δ) and a β and γ subunits with a likely stoichiometry of $\alpha 2\beta\gamma$. ENaC channel enable entry of Na^+ into the cell along its electrochemical gradient and thus has a central role in the maintenance of renal Na^+ balance (and hence blood pressure) and liquid balance in the lung. Indeed, genetic mutations in the ENaC subunits causes Liddle's syndrome (a form of hypertension) or pseudohypoaldosteronism type 1 (PHA) that is characterized by hypotension. The ENaC channel is voltage-independent and is constitutively active in epithelia although it is modulated by several different mechanisms. One of the main mechanisms is the controlled internalization of the channel that is dependent on the β or γ subunits. Indeed, mutations in the C-termini of these subunits reduce endocytosis of the channel leading to the accumulation of ENaC in the cell membrane and causing a phenotype that is consistent with that of Liddle's syndrome.

Alternative names: ENaC gamma (SCNN1G), Amiloride-sensitive sodium channel subunit gamma, Epithelial sodium channel gamma subunit, Gamma-ENaC, Gamma-NaCH, Nonvoltage-gated sodium channel 1 subunit gamma, SCNEG

Gene ID: 24768

NCBI Accession: [NM_001039](#)

UniProt: [P37091](#)

Application Details

Application Notes: Antigen preadsorption control: 1 μg peptide per 1 μg antibody

Application Dilutions Immunohistochemistry paraffin embedded sections ihc: N/A

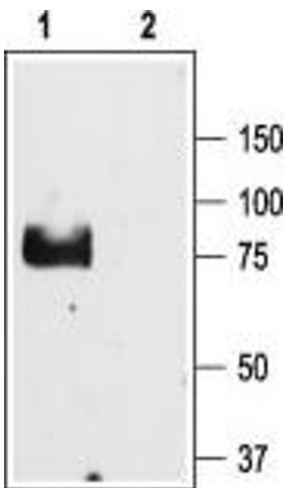
Application Details

	Application Dilutions Western blot wb: 1:200
Comment:	Negative Control: (ABIN7236831) Blocking Peptide: (ABIN7236831)
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitute with double distilled water (DDW) to a concentration of 1.0 mg/mL.
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
Storage:	4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

Images



Western Blotting

Image 1. Western blot analysis of rat lung lysate: - 1. Anti-ENaC γ (SCNN1G) (extracellular) Antibody (ABIN7043636 and ABIN7045233), (1:200).2. Anti-ENaC γ (SCNN1G) (extracellular) Antibody, preincubated with ENaC gamma/SCNN1G (extracellular) Blocking Peptide (#BLP-SC011).