

Rabbit SCNN1A Polyclonal Antibody | anti-SCNN1A antibody

SCNN1A Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327844	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

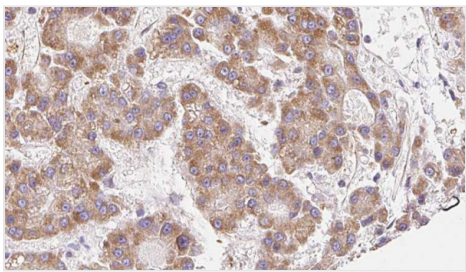
PRODUCT SYNONYMS

SCNN1A; Polyclonal Antibody; SCNN1A Antibody; Alpha ENaC 2; Alpha ENaC; Alpha NaCH; Alpha-ENaC; Alpha-NaCH; Amiloride sensitive epithelial sodium channel alpha subunit; Amiloride sensitive sodium channel subunit alpha; Amiloride-sensitive sodium channel subunit alpha; ENaCA; ENaCalpha; Epithelial Na(+) channel subunit alpha; Epithelial Na+ channel subunit alpha; FLJ21883; Nonvoltage gated sodium channel 1 subunit alpha; Nonvoltage-gated sodium channel 1 subunit alpha; SCNEA; SCNN 1; SCNN1; Scnn1a; SCNNA_HUMAN; Sodium channel nonvoltage gated 1 alpha; anti-SCNN1A antibody

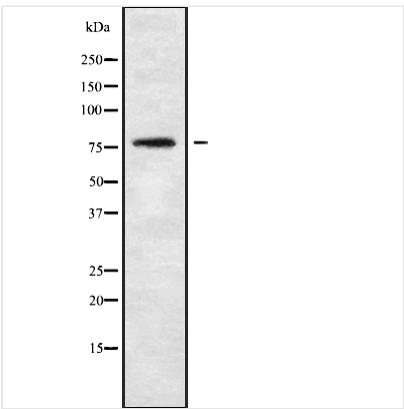
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SCNN1A antibody detects endogenous levels of total SCNN1A
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	669
Applicable Applications for anti-SCNN1A antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SCNN1A
Subcellular Location	Apical Cell Membrane. Apical membrane of epithelial cells.
Tissue Specificity	Expressed in the female reproductive tract, from the fimbrial end of the fallopian tube to the endometrium (at protein level) (PubMed:22207244). Expressed in kidney (at protein level). In the respiratory tract, expressed in the bronchial epithelium (at protein level). Highly expressed in lung. Detected at intermediate levels in pancreas and liver, and at low levels in heart and placenta (PubMed:22207244). in skin, expressed in keratinocytes, melanocytes and Merkel cells of the epidermal sub-layers, stratum basale, stratum spinosum and stratum granulosum (at protein level) (PubMed:28130590). Expressed in the outer root sheath of the hair follicles (at protein level) (PubMed:28130590). Detected in both peripheral and central cells of the sebaceous gland (at protein level) (PubMed:28130590). Expressed by eccrine sweat glands (at protein level) (PubMed:28130590). In skin, also expressed by arrector pili muscle cells and intradermal adipocytes (PubMed:28130590). Isoform 1 and isoform 2 predominate in all tissues. Expression of isoform 3, isoform 4 and isoform 5 is very low or not detectable, except in lung and heart (PubMed:9575806).
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Bovine (92%), Horse (100%), Sheep (92%), Rabbit (100%), Dog (100%), Chicken (92%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA327844 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis SCNN1A using HuvEc whole cell lysates

ADDITIONAL INFORMATION

Related Product Information for anti-SCNN1A antibody	Function: Sodium permeable non-voltage-sensitive ion channel inhibited by the diuretic amiloride. Mediates the electrodiffusion of the luminal sodium (and water, which follows osmotically) through the apical membrane of epithelial cells. Plays an essential role in electrolyte and blood pressure homeostasis, but also in airway surface liquid homeostasis, which is important for proper clearance of mucus. Controls the reabsorption of sodium in kidney, colon, lung and eccrine sweat glands. Also plays a role in taste perception. Subunit Structure: Heterotrimer containing an alpha/SCNN1A, a beta/SCNN1B and a gamma/SCNN1G subunit. An additional delta/SCNN1D subunit exists only in some organisms and can replace the alpha/SCNN1A subunit to form an alternative channel with specific properties (By similarity). Interacts with NEDD4 (via WW domains) (PubMed:11244092, PubMed:11696533, PubMed:12167593, PubMed:23665454). Interacts with NEDD4L (via WW domains) (PubMed:11244092, PubMed:11696533). Interacts with WWP1 (via WW domains) (PubMed:9169421). Interacts with WWP2 (via WW domains) (PubMed:12167593, PubMed:9169421). Interacts with the full-length immature form of PCSK9 (pro-PCSK9) (PubMed:22493497). Post-translational Modifications: Ubiquitinated; this targets individual subunits for endocytosis and proteasome-mediated degradation. ENaC cleavage by furin, and subsequently by prostaticin (PRSS8), leads to a stepwise increase in the open probability of the channel as a result of release of the alpha and gamma subunit inhibitory tracts, respectively. Interaction of ENaC subunit SCNN1B with BPIFA1 protects ENaC against proteolytic activation. N-glycosylated. Similarity: Belongs to the amiloride-sensitive sodium channel (TC 1.A.6) family. SCNN1A subfamily.
References	Li B, Chen X, Yang W, He J, He K, Xia Z, Zhang J, Xiang G; Journal: Int J Oncol. Single-walled carbon nanohorn aggregates promotes mitochondrial dysfunction-induced apoptosis in hepatoblastoma cells by targeting SIRT3.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506815
NCBI GeneID	6337
NCBI Accession #	NP_001029.1
NCBI GenBank Nucleotide #	NM_001038.5
UniProt Accession #	P37088; O43271; Q6GSQ6; Q9UM64; A5X2U9; B4E2Q5; C5HTZ0
Molecular Weight	Observed: 76 kDa Predicted: 76 kDa
NCBI Official Full Name	amiloride-sensitive sodium channel subunit alpha isoform 1
NCBI Official Synonym Full Names	sodium channel epithelial 1 alpha subunit
NCBI Official Symbol	SCNN1A
NCBI Official Synonym Symbols	BESC2; ENaCa; SCNEA; SCNN1; LIDLS3; ENaCalpha

NCBI Protein Information	amiloride-sensitive sodium channel subunit alpha
UniProt Protein Name	Amiloride-sensitive sodium channel subunit alpha
UniProt Gene Name	SCNN1A
UniProt Synonym Gene Names	SCNN1; Alpha-ENaC; ENaCA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/scnn1a-antibody-immunohistochemistry-western-blot-elisa/327844>