For Research Use Only

SCNN1A Polyclonal antibody

Catalog Number:10924-2-AP Featured Product 15 Publications

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Basic Information

Catalog Number:
10924-2-AP

Size:
150ul , Concentration: 187 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1325

GenBank Accession Number:
BC006526

GeneID (NCBI):
6337

UNIPROT ID:
P37088

Full Name:
sodium channel, nonvoltage-gated 1 alpha

Calculated MW:
76 kDa

Observed MW:
60-70 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IHC 1:20-1:200
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IF, IHC, ELISA

Cited Applications:
WB, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : PC-13 cells, HEK-293

IHC : human kidney tissue,

IF/ICC : A549 cells,

Background Information

SCNN1A (sodium channel, non-voltage-gated 1 alpha), also known as ENaCA (epithelial Na(+) channel subunit alpha) or amiloride-sensitive sodium channel subunit alpha, is the alpha subunit of the epithelial Na(+) channel (ENaC). ENaC is expressed in the apical membrane of salt-absorbing epithelia of kidney, distal colon, and lung. ENaC is a non-voltage gated, constitutively active channel highly selective for sodium. It has an essential role in salt and fluid homeostasis across epithelial tissues. ENaC consists of three different subunits: alpha, beta, gamma. Mutations in the gene of SCNN1A have been associated with pseudohypoaldosteronism type 1 (PHA1), a rare salt wasting disease resulting from target organ unresponsiveness to mineralocorticoids. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. It has been reported that full-length SCNN1A protein can be cleaved into 65- and 30-kDa fragments (PMID: 16477034; 18701608).

Notable Publications

Author	Pubmed ID	Journal	Application
Ivana d'Angelo	29035132	J Aerosol Med Pulm Drug Deliv	WB
Jianping Zhang	31719660	Sci Rep	IHC
David W Scott	28481660	Am J Respir Crit Care Med	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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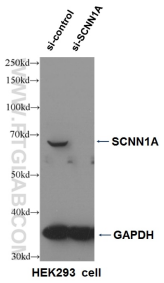
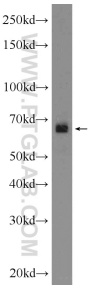
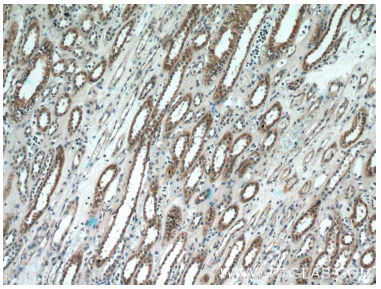
Selected Validation Data



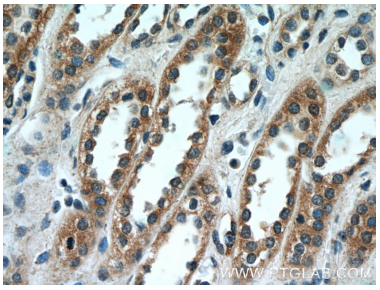
WB result of SCNN1A (10924-2-AP, 1:1000) with si-control and si-SCNN1A transfected HEK293 cells.



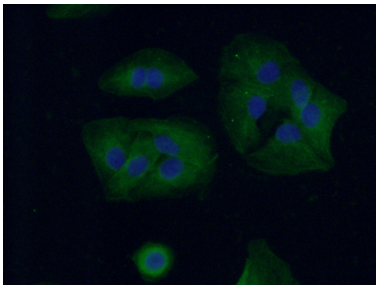
PC-13 cells were subjected to SDS PAGE followed by western blot with 10924-2-AP (SCNN1A Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 10924-2-AP (SCNN1A Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 10924-2-AP (SCNN1A Antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed A549 cells using 10924-2-AP (SCNN1A antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).