

# Product Datasheet

## epithelial Sodium Channel alpha Antibody NB100-74357

Unit Size: 100 ug

Store at -20C. Avoid freeze-thaw cycles.

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**NB100-74357**

epithelial Sodium Channel alpha Antibody

Product Information	
Unit Size	100 ug
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS with 1 mg/ml BSA
Target Molecular Weight	76 kDa

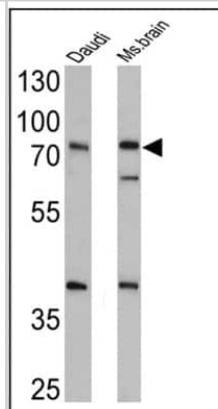
Product Description	
Host	Rabbit
Gene ID	6337
Gene Symbol	SCNN1A
Species	Human, Mouse, Rat
Immunogen	Synthetic peptide corresponding to residues L(20) M K G N K R E E Q G L G P E P A A P Q Q P T(42) C of Human alpha-Enac.

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1:100 - 1:1000, Immunocytochemistry/ Immunofluorescence 1:10 - 1:500
Application Notes	ICC/IF uage was reported in scientific literature (PMID: 25953733). WB: Specifically detects an approx. 97 kDa protein representing glycosylated alpha-ENaC from NIH-3T3 cells, and an approx. 75 kDa protein representing the unglycosylated alpha-ENaC protein from human brain samples.

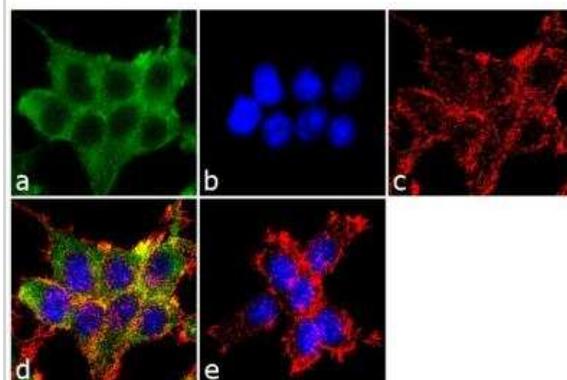


## Images

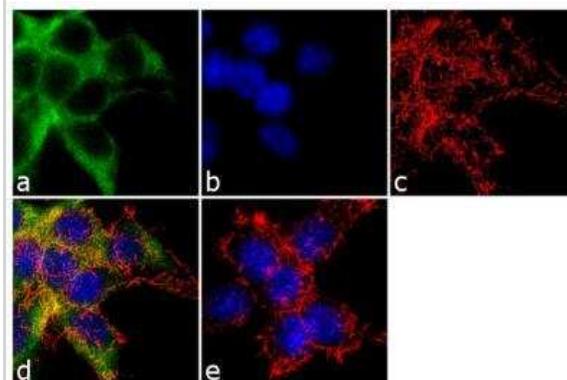
Western Blot: epithelial Sodium Channel alpha Antibody [NB100-74357]  
- Analysis of 25 ug of Daudi (lane 1) and mouse brain (lane 2) cell lysates onto an SDS polyacrylamide gel.



Immunocytochemistry/Immunofluorescence: epithelial Sodium Channel alpha Antibody [NB100-74357] - performed using 70% confluent log phase HEK-293 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton(tm) X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with alpha ENaC Rabbit Polyclonal Antibody at 2 ug/ml in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (H+L) Superclonal(tm) Secondary Antibody, Alexa Fluor(R) 488 conjugate a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade(R) Gold Antifade Mountant with DAPI. F-actin (Panel c: red) was stained with Alexa Fluor(R) 555 Rhodamine Phalloidin (1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



Immunocytochemistry/Immunofluorescence: epithelial Sodium Channel alpha Antibody [NB100-74357] - performed using 70% confluent log phase HEK 293 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton(tm) X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with alpha ENaC Rabbit Polyclonal Antibody at 2ug/ml in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (H+L) Superclonal(tm) Secondary Antibody, Alexa Fluor(R) 488 conjugate) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade(R) Gold Antifade Mountant with DAPI. F-actin (Panel c: red) was stained with Alexa Fluor(R) 555 Rhodamine Phalloidin (1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



## Publications

Arunava Ghosh, Raymond D. Coakley, Neil E. Alexis, Robert Tarran, Richard J. Naftalin Vaping-Induced Proteolysis Causes Airway Surface Dehydration International Journal of Molecular Sciences 2023-10-19 [PMID: 37895029]

Czikora I, Alli AA, Sridhar S et al. Epithelial Sodium Channel- $\alpha$  Mediates the Protective Effect of the TNF-Derived TIP Peptide in Pneumolysin-Induced Endothelial Barrier Dysfunction. Front Immunol. [PMID: 28785264] (WB, Human)

Liang C, Wang QS, Yang X et al. Oxidized low-density lipoprotein stimulates epithelial sodium channels in endothelial cells of mouse thoracic aorta. Br J Pharmacol 2018-04-01 [PMID: 28480509] (Mouse)

Liu HB, Zhang J, Sun YY et al. Dietary salt regulates epithelial sodium channels in rat endothelial cells: adaptation of vasculature to salt. Br. J. Pharmacol. 2015-05-08 [PMID: 25953733] (WB, ICC/IF, Rat)

Williams JS, Chamarthi B, Goodarzi MO, Pojoga LH, Sun B, Garza AE, Raby BA, Adler GK, Hopkins PN, Brown NJ, Jeunemaitre X, Ferri C, Fang R, Leonor T, Cui J, Guo X, Taylor KD, Ida Chen YD, Xiang A, Raffel LJ, Buchanan TA, Rotter JI, Williams GH, Shi Y. Lysine-Specific Demethylase 1: An Epigenetic Regulator of Salt-Sensitive Hypertension. Am J Hypertens. 2012-04-26 [PMID: 22534796] (WB, Mouse)





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### **Products Related to NB100-74357**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-84846PEP	epithelial Sodium Channel alpha Recombinant Protein Antigen

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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