

# Product Datasheet

## NHE3/SLC9A3 Antibody - BSA Free NBP1-82574

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**Publications: 31**

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Updated 2/21/2025 v.20.1

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**NBP1-82574**

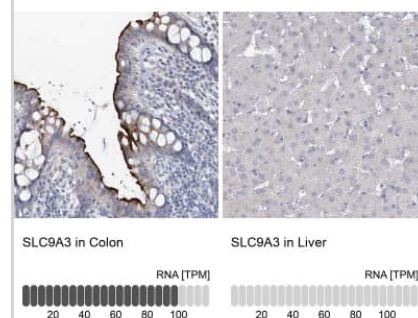
NHE3/SLC9A3 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Product Description	
Host	Rabbit
Gene ID	6550
Gene Symbol	SLC9A3
Species	Human, Mouse, Porcine
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 29196502). Use in Porcine reported in scientific publication (PMID: 32738496).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: DNPVFSPDEALDRSLLARLPPWLSPGETVVPSQRARTQIPYSPGTFCRLMPFR LSSKSVDSFLQADGPEERPPAALPEST
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, SDS-Page
Recommended Dilutions	Western Blot Reported in scientific literature (PMID: 32738496)., Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence Reported in scientific literature (PMID: 32502894)., Immunohistochemistry-Paraffin 1:200 - 1:500, Immunohistochemistry-Frozen Reported in scientific literature (PMID 26677983), SDS-Page Reported in scientific literature (PMID: 32738496).
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

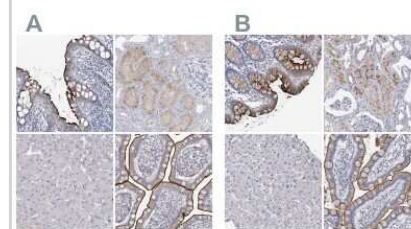


## Images

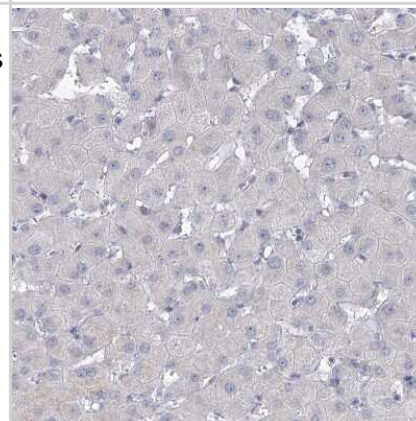
**Immunohistochemistry-Paraffin: NHE3/SLC9A3 Antibody [NBP1-82574]**  
 - Analysis in human colon and liver tissues using NBP1-82574 antibody. Corresponding SLC9A3 RNA-seq data are presented for the same tissues.



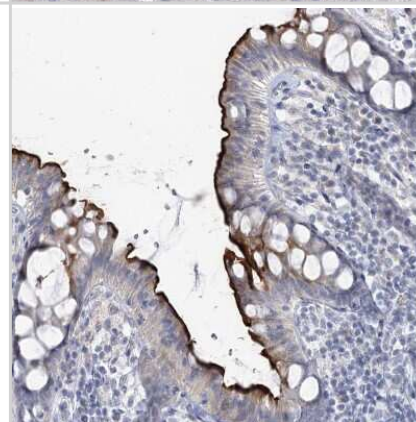
**Immunohistochemistry-Paraffin: NHE3/SLC9A3 Antibody [NBP1-82574]**  
 - Staining of human colon, kidney, liver and small intestine using Anti-SLC9A3 antibody NBP1-82574 (A) shows similar protein distribution across tissues to independent antibody NBP1-82575 (B).



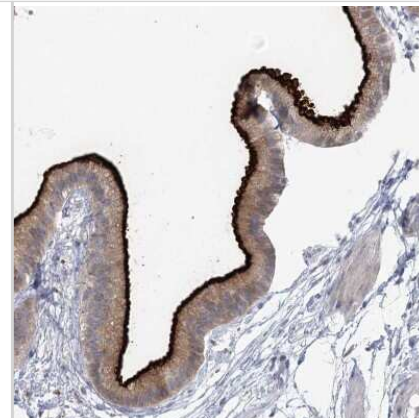
**Immunohistochemistry-Paraffin: NHE3/SLC9A3 Antibody [NBP1-82574]**  
 - Staining of human liver shows no membranous positivity in hepatocytes as expected.



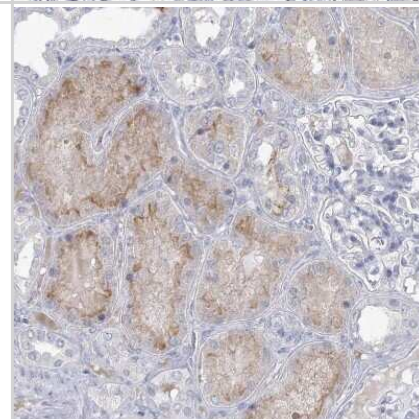
**Immunohistochemistry-Paraffin: NHE3/SLC9A3 Antibody [NBP1-82574]**  
 - Staining of human colon shows strong positivity in apical membrane in glandular cells.



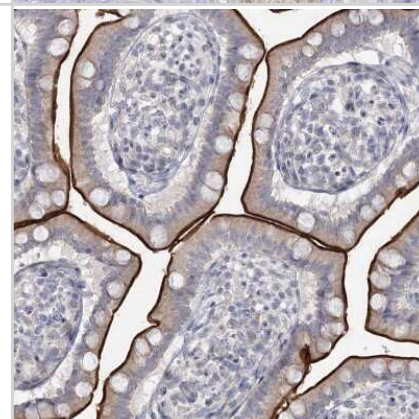
Immunohistochemistry-Paraffin: NHE3/SLC9A3 Antibody [NBP1-82574]  
- Staining of human gallbladder shows strong positivity in apical membrane in glandular cells.



Immunohistochemistry-Paraffin: NHE3/SLC9A3 Antibody [NBP1-82574]  
- Staining of human kidney shows weak positivity in apical membrane in cells in tubules.



Immunohistochemistry-Paraffin: NHE3/SLC9A3 Antibody [NBP1-82574]  
- Staining of human small intestine shows strong positivity in apical membrane in glandular cells.



## Publications

Kunke, M;Knöfler, H;Dahlke, E;Zanon Rodriguez, L;Böttner, M;Larionov, A;Saudenova, M;Ohrenscha, GM;Westermann, M;Porubsky, S;Bernardes, JP;Häsler, R;Magnin, JL;Koepsell, H;Jouret, F;Theilig, F; Targeted deletion of von-Hippel-Lindau in the proximal tubule conditions the kidney against early diabetic kidney disease Cell death & disease 2023-08-26 [PMID: 37626062]

Ruichao Yue, Xiaoyuan Wei, Liuyi Hao, Haibo Dong, Wei Guo, Xinguo Sun, Jiangchao Zhao, Zhanxiang Zhou, Wei Zhong Promoting intestinal antimicrobial defense and microbiome symbiosis contributes to IL-22-mediated protection against alcoholic hepatitis in mice Frontiers in Immunology 2023-10-16 [PMID: 37908362]

Mahdi Amiri, Min Jiang, Azam Salari, Renjie Xiu, Seth L. Alper, Ursula E. Seidler Reduced surface pH and upregulated AE2 anion exchange in SLC26A3-deleted polarized intestinal epithelial cells American Journal of Physiology - Cell Physiology 2024-03-01 [PMID: 38223928]

Kim YH, Lee YK, Park SS et al. Mid-old cells are a potential target for anti-aging interventions in the elderly Nature communications 2023-11-22 [PMID: 37993434] (IHC-P, Mouse, Human)

Mödl B, Awad M, Zwolanek D et al. Defects in microvillus crosslinking sensitize to colitis and inflammatory bowel disease EMBO reports 2023-09-11 [PMID: 37691494] (WB, ICC/IF, Mouse)

Yue R, Wei X, Zhao J et al. Essential Role of IFN- $\gamma$  in Regulating Gut Antimicrobial Peptides and Microbiota to Protect Against Alcohol-Induced Bacterial Translocation and Hepatic Inflammation in Mice Frontiers in Physiology 2021-01-18 [PMID: 33536944] (Immunocytochemistry/ Immunofluorescence)

Donowitz M, Sarker R, Lin R et al. Identification of Intestinal NaCl Absorptive-Anion Secretory Cells: Potential Functional Significance Frontiers in Physiology 2022-07-19 [PMID: 35928564] (Block/Neutralize)

Hiltz RL, McCurdy DE, Moreland S et al. Effects of weaning on regulators of volatile fatty acid absorption and intracellular pH in Holstein calves JDS Communications 2021-11-01 [PMID: 36337096] (Immunocytochemistry/ Immunofluorescence)

Zachos NC, Vaughan H, Sarker R et al. A NOVEL PEPTIDE PREVENTS ENTEROTOXIN- AND INFLAMMATION-INDUCED INTESTINAL FLUID SECRETION BY STIMULATING NHE3 ACTIVITY Gastroenterology 2023-07-08 [PMID: 37429363]

Peritore-Galve FC, Kaji I, Smith A et al. Increased intestinal permeability and downregulation of absorptive ion transporters Nhe3, Dra, and Sglt1 contribute to diarrhea during Clostridioides difficile infection Gut microbes 2023-06-23 [PMID: 37350393] (IHC-P, Mouse)

Salari A, Zhou K, Nikolovska K et al. Human Colonoid-Myofibroblast Coculture for Study of Apical Na<sup>+</sup>/H<sup>+</sup> Exchangers of the Lower Cryptal Neck Region International journal of molecular sciences 2023-02-21 [PMID: 36901695] (WB, ICC/IF, Human)

Duclaux-Loras R, Lebreton C, Berthelet J et al. UNC45A deficiency causes microvillus inclusion disease-like phenotype by impairing myosin VB-dependent apical trafficking The Journal of clinical investigation 2022-05-16 [PMID: 35575086] (IF/IHC, ICC/IF, Human)

More publications at <http://www.novusbio.com/NBP1-82574>







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General: novus@novusbio.com

### **Products Related to NBP1-82574**

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NBP1-82574PEP	NHE3/SLC9A3 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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