

# 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: 34**

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**NBP1-82574**

NHE3/SLC9A3 Antibody - BSA Free

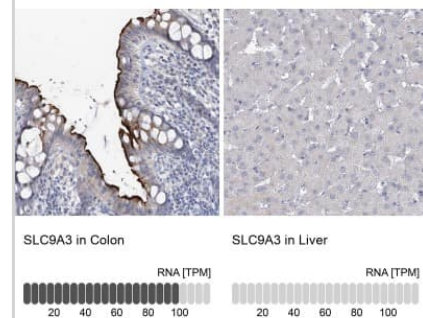
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	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). Porcine reactivity reported in scientific literature (PMID: 32738496).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: DNPVFSPDEALDRSLLARLPPWLSPGETVVPSQRARTQIPYSPGTFCRLMPFR LSSKSVDSFLQADGPEERPPAALPEST

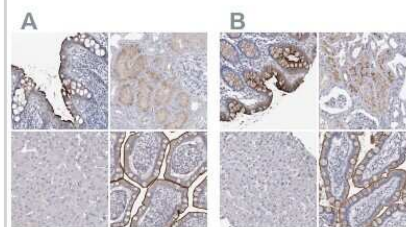
Product Application Details	
Applications	Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, SDS-Page
Recommended Dilutions	Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence Reported in scientific literature (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	IHC-Paraffin, HIER pH 6 retrieval is recommended.

**Images**

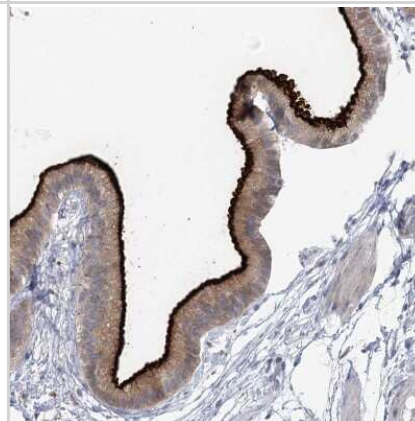
Immunohistochemistry-Paraffin: NHE3/SLC9A3 Antibody [NBP1-82574] - Analysis in human colon and liver tissues using NBP1-82574 antibody. Corresponding SLC9A3 RNA-seq data are presented for the same tissues.



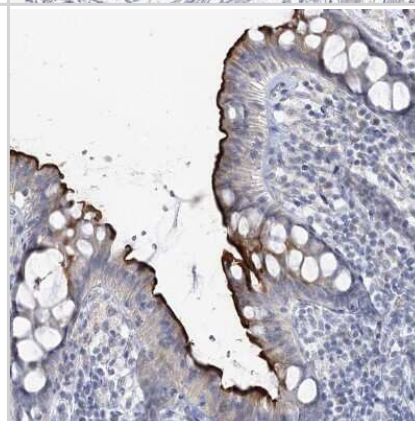
Immunohistochemistry-Paraffin: NHE3/SLC9A3 Antibody [NBP1-82574]  
- Staining of human colon, kidney, liver and small intestine using Anti-SLC9A3 antibody NBP1-82574 (A) shows similar protein distribution across tissues to independent antibody NBP1-82575 (B).



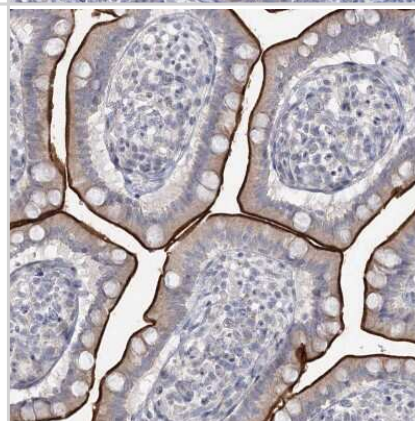
Immunohistochemistry-Paraffin: NHE3/SLC9A3 Antibody [NBP1-82574]  
- Staining of human gallbladder shows strong positivity in apical membrane in glandular cells.



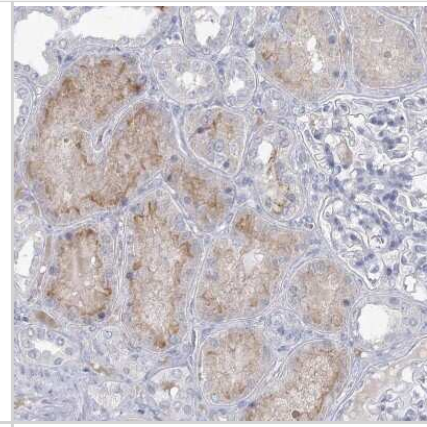
Immunohistochemistry-Paraffin: NHE3/SLC9A3 Antibody [NBP1-82574]  
- Staining of human colon shows strong positivity in apical membrane in glandular cells.



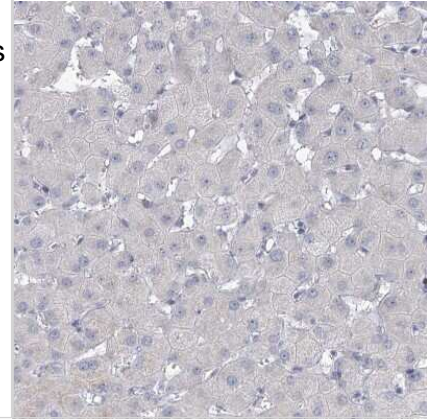
Immunohistochemistry-Paraffin: NHE3/SLC9A3 Antibody [NBP1-82574]  
- Staining of human small intestine shows strong positivity in apical membrane in glandular cells.



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 liver shows no membranous positivity in hepatocytes as expected.



## Publications

Singh V, Lin R, Sunuwar L et al. Differential Regulation of NHE3 Expression in Type 1 and Type 2 Diabetic Intestine: Impaired Endosomal Regulation of NHE3 Expression in Type 1 Diabetes. *American Journal of Physiology - Cell Physiology* 2025-09-10 [PMID: 40929175]

Ciobanu C, Cebotaru L AAV1 CFTR preferentially transduces cysts and reduces cyst size in a mouse model of ADPKD. *American journal of physiology. Cell physiology* 2025-06-01 [PMID: 40237039]

Kanowski S, Shen Y, Klein T et al. Impact of hyperbaric oxygenation therapy (HBOT) on renal function in human. *Scientific Reports* 2025-07-11 [PMID: 40646131]

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]

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]

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]

Kunke, M;Knöfler, H;Dahlke, E;Zanon Rodriguez, L;Böttner, M;Larionov, A;Saudenova, M;Ohrensall, 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)

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]

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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