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Datasheet for ABIN2486537

anti-SLC9A3 antibody (Atto 488)

2 Images

Overview

| | |
|--------------|---|
| Quantity: | 100 µg |
| Target: | SLC9A3 |
| Reactivity: | Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This SLC9A3 antibody is conjugated to Atto 488 |
| Application: | Western Blotting (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC), Immunofluorescence (IF) |

Product Details

| | |
|-------------------|---|
| Immunogen: | Synthetic peptide mapping to AA 809 to 831 of rat sequence |
| Specificity: | Most abundant in colon and small intestine, followed by kidney and stomach. In kidney, expressed in proximal tubules and outer medulla (at protein level), Detects ~84 kDa. |
| Cross-Reactivity: | Mouse, Rat |
| Purification: | Protein A Purified |

Target Details

| | |
|-------------------|--|
| Target: | SLC9A3 |
| Alternative Name: | NHE3 (SLC9A3 Products) |
| Background: | Sodium-hydrogen exchanger 3 (NHE3, Slc9a3) is an epithelial transport protein that carries out 1:1 exchange of Na ⁺ and H ⁺ across the plasma membrane. It is apically located in the proximal |

Target Details

tubule of the kidney, the thick ascending limb of the kidney, and in small intestine (1). NHE3 is phosphorylated and regulated by multiple kinases including PKA, SGK1 and CK2. It can be phosphorylated by calyculin A, and dephosphorylated by PP1 catalytic subunit in vitro (2).

Gene ID: 24784

NCBI Accession: [NP_036786](#)

UniProt: [P26433](#)

Pathways: [Proton Transport](#)

Application Details

Application Notes:

- WB (1:1000)
- IHC (1:25)
- optimal dilutions for assays should be determined by the user.

Comment: 1 µg/ml of ABIN2486537 was sufficient for detection of HNE3 in 10 µg of rat kidney tissue lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

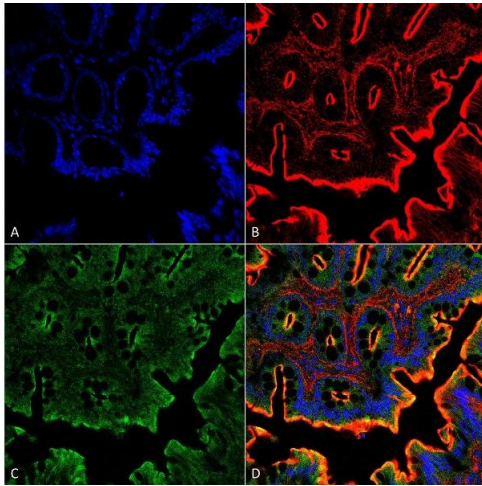
Buffer: PBS, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

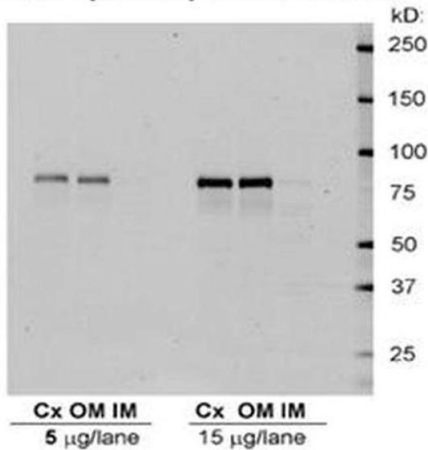
Storage Comment: Conjugated antibodies should be stored at 4°C



Immunohistochemistry

Image 1. Immunohistochemistry analysis using Rabbit Anti-NHE3 Polyclonal Antibody (ABIN2486537). Tissue: Colon. Species: Rat. Fixation: Formalin Fixed Paraffin-Embedded. Primary Antibody: Rabbit Anti-NHE3 Polyclonal Antibody (ABIN2486537) at 1:25 for 1 hour at RT. Secondary Antibody: Goat Anti-Rabbit IgG:Alexa Fluor 488. Counterstain: Actin-binding Phalloidin-Alexa Fluor 633, DAPI (blue) nuclear stain. Magnification: 63X. (A) DAPI (blue) nuclear stain. (B) Phalloidin Alex Fluor 633 F-Actin stain. (C) NHE3 Antibody (D) Composite

L546 (NHE3) Immunoblot



Western Blotting

Image 2. Western blot analysis of Rat kidney tissue lysates showing detection of NHE3 protein using Rabbit Anti-NHE3 Polyclonal Antibody . Primary Antibody: Rabbit Anti-NHE3 Polyclonal Antibody at 1:1000.