

## Rabbit Sodium/hydrogen exchanger 1 Polyclonal Antibody | anti-SLC9A1 antibody

Anti-SLC9A1 Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                       |
|-----------|--------|-------------------|------------------------------------|
| AAA46067  | Rabbit | Human, Mouse, Rat | Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

Sodium/hydrogen exchanger 1; Polyclonal Antibody; Anti-SLC9A1 Antibody; amiloride-sensitive antibody; APNH antibody; APNH1 antibody; FLJ42224 antibody; Na Li countertransporter antibody; Na(+)/H(+) antiporter antibody; Na(+)/H(+) exchanger 1 antibody; Na+ H+ antiporter amiloride-sensitive antibody; Na+ H+ antiporter antibody; Na+ H+ exchanger 1 antibody; NHE-1 antibody; NHE1 antibody; OTTHUMP00000004468 antibody; SL9A1\_HUMAN antibody; SLC9A1 antibody; Sodium hydrogen exchanger 1 antibody; Sodium/hydrogen exchanger 1 antibody; solute carrier family 9 antibody; Solute carrier family 9 member 1 antibody; Solute carrier family 9 sodium hydrogen exchanger isoform 1 antiporter Na+ H+ amiloride sensitive antibody; Solute carrier family 9 subfamily A (NHE1 cation proton antiporter 1) member 1 antibody; Solute carrier family 9 subfamily A member 1 antibody; solute carrier family 9; subfamily A (NHE1; cation proton antiporter 1); member 1; anti-SLC9A1 antibody

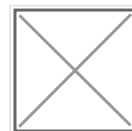
### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                                      |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                                               |
| Reactivity                                       | Human, Mouse, Rat                                                                                                                                                                                    |
| Clonality                                        | Polyclonal                                                                                                                                                                                           |
| Isotype                                          | IgG                                                                                                                                                                                                  |
| Specificity                                      | No cross reactivity with othee protiens                                                                                                                                                              |
| Purity/Purification                              | Immunogen affinity purified.                                                                                                                                                                         |
| Form/Format                                      | Lyophilized<br>Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.                                                                                                                   |
| Sequence Length                                  | 815                                                                                                                                                                                                  |
| Applicable Applications for anti-SLC9A1 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                        |
| Reconstitution                                   | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                 |
| Immunogen                                        | E.coli-derived human SLC9A1 recombinant protein (Position: H543-Q815). Human SLC9A1 shares 92% and 93% amino acid (aa) sequences identity with mouse and rat SLC9A1, respectively.                   |
| Preparation and Storage                          | At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing. |

### IMAGES



IHC (Immunohistochemistry)  
Anti-SLC9A1 Picoband antibody, AAA46067-5.JPGIHC(P): Mouse Kidney Tissue



IHC (Immunohistochemistry)  
Anti-SLC9A1 Picoband antibody, AAA46067-4.JPGIHC(P): Human Mammary Cancer Tissue



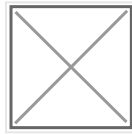
#### IHC (Immunohistochemisry)

Anti-SLC9A1 Picoband antibody, AAA46067-3.JPGIHC(P): Rat Kidney Tissue



#### Application Data

Anti-SLC9A1 Picoband antibody, AAA46067-2.jpgAll lanes: Anti SLC9A1 (AAA46067) at 0.5ug/mlLane 1: PC-12 Whole Cell Lysate at 40ugLane 2: MCF-7 Whole Cell Lysate at 40ugPredicted bind size: 91KDObserved bind size: 91KD



#### Application Data

Anti-SLC9A1 Picoband antibody, AAA46067-1.jpgAll lanes: Anti SLC9A1 (AAA46067) at 0.5ug/mlWB: Recombinant Human Sodium Protein 0.5ngPredicted bind size: 37KDObserved bind size: 37KD

## ADDITIONAL INFORMATION

#### Related Product Information for anti-SLC9A1 antibody

**Background:** NHE1, also known as SLC9A1, is an isoform of sodium–hydrogen antiporter that in humans is encoded by the SLC9A1 gene. It is mapped to 1p36.11. NHE1 is a ubiquitous membrane-bound enzyme involved in pH regulation of vertebrate cells. It is specifically inhibited by the diuretic drug amiloride and activated by a variety of signals including growth factors, mitogens, neurotransmitters, tumor promoters, and others. The plasma membrane ion exchanger NHE1 acts as an anchor for actin filaments to control the integrity of the cortical cytoskeleton. And a structural role for NHE1 in regulating the cortical cytoskeleton that is independent of its function as an ion exchanger. NHE1 is a plausible candidate gene for human essential hypertension.

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">27777632</a>                                                                                                                                                                                                                                                                                                                        |
| NCBI GeneID                      | <a href="#">6548</a>                                                                                                                                                                                                                                                                                                                            |
| NCBI Accession #                 | <a href="#">NP_003038.2</a>                                                                                                                                                                                                                                                                                                                     |
| NCBI GenBank Nucleotide #        | <a href="#">NM_003047.4</a>                                                                                                                                                                                                                                                                                                                     |
| UniProt Accession #              | <a href="#">P19634</a> ; <a href="#">Q96EM2</a> ; <a href="#">B1ALD6</a> ; <a href="#">D3DPL4</a>                                                                                                                                                                                                                                               |
| NCBI Official Full Name          | sodium/hydrogen exchanger 1                                                                                                                                                                                                                                                                                                                     |
| NCBI Official Synonym Full Names | solute carrier family 9, subfamily A (NHE1, cation proton antiporter 1), member 1                                                                                                                                                                                                                                                               |
| NCBI Official Symbol             | SLC9A1                                                                                                                                                                                                                                                                                                                                          |
| NCBI Official Synonym Symbols    | APNH; NHE1; NHE-1; PPP1R143                                                                                                                                                                                                                                                                                                                     |
| NCBI Protein Information         | sodium/hydrogen exchanger 1; Na(+)/H(+) exchanger 1; Na-Li countertransporter; protein phosphatase 1, regulatory subunit 143; solute carrier family 9 (sodium/hydrogen exchanger), member 1 (antiporter, Na+/H+, amiloride sensitive); solute carrier family 9 (sodium/hydrogen exchanger), isoform 1 (antiporter, Na+/H+, amiloride sensitive) |
| UniProt Protein Name             | Sodium/hydrogen exchanger 1                                                                                                                                                                                                                                                                                                                     |
| UniProt Gene Name                | <b>SLC9A1</b>                                                                                                                                                                                                                                                                                                                                   |
| UniProt Synonym Gene Names       | APNH1; NHE1; NHE-1                                                                                                                                                                                                                                                                                                                              |
| UniProt Entry Name               | SL9A1_HUMAN                                                                                                                                                                                                                                                                                                                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

