

**SLC9A1 / NHE1 Antibody (C-Terminus)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS12397****Specification****SLC9A1 / NHE1 Antibody (C-Terminus) - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | IF, WB                 |
| Primary Accession | <a href="#">P19634</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 91kDa KDa              |

**SLC9A1 / NHE1 Antibody (C-Terminus) - Additional Information****Gene ID** 6548**Other Names**

Sodium/hydrogen exchanger 1, APNH, Na(+)/H(+) antiporter, amiloride-sensitive, Na(+)/H(+) exchanger 1, NHE-1, Solute carrier family 9 member 1, SLC9A1, APNH1, NHE1

**Reconstitution & Storage**

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

**Precautions**

SLC9A1 / NHE1 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

**SLC9A1 / NHE1 Antibody (C-Terminus) - Protein Information****Name** SLC9A1 ([HGNC:11071](#))**Function**

Electroneutral Na(+) /H(+) antiporter that extrudes Na(+) in exchange for external protons driven by the inward sodium ion chemical gradient, protecting cells from acidification that occurs from metabolism (PubMed: <http://www.uniprot.org/citations/11350981> target="\_blank">11350981</a>, PubMed: <http://www.uniprot.org/citations/11532004> target="\_blank">11532004</a>, PubMed: <http://www.uniprot.org/citations/14680478> target="\_blank">14680478</a>, PubMed: <http://www.uniprot.org/citations/15035633> target="\_blank">15035633</a>, PubMed: <http://www.uniprot.org/citations/15677483> target="\_blank">15677483</a>, PubMed: <http://www.uniprot.org/citations/17073455> target="\_blank">17073455</a>, PubMed: <http://www.uniprot.org/citations/17493937> target="\_blank">17493937</a>, PubMed: <http://www.uniprot.org/citations/22020933> target="\_blank">22020933</a>, PubMed: <http://www.uniprot.org/citations/27650500> target="\_blank">27650500</a>, PubMed: <http://www.uniprot.org/citations/32130622> target="\_blank">32130622</a>, PubMed: <http://www.uniprot.org/citations/7110335> target="\_blank">7110335</a>, PubMed: <http://www.uniprot.org/citations/7603840> target="\_blank">7603840</a>). Exchanges intracellular H(+) ions for extracellular Na(+) in 1:1

stoichiometry (By similarity). Plays a key role in maintaining intracellular pH neutral and cell volume, and thus is important for cell growth, proliferation, migration and survival (PubMed:<a href="http://www.uniprot.org/citations/12947095" target="\_blank">12947095</a>, PubMed:<a href="http://www.uniprot.org/citations/15096511" target="\_blank">15096511</a>, PubMed:<a href="http://www.uniprot.org/citations/22020933" target="\_blank">22020933</a>, PubMed:<a href="http://www.uniprot.org/citations/8901634" target="\_blank">8901634</a>). In addition, can transport lithium Li(+) and also functions as a Na(+)/Li(+) antiporter (PubMed:<a href="http://www.uniprot.org/citations/7603840" target="\_blank">7603840</a>). SLC9A1 also functions in membrane anchoring and organization of scaffolding complexes that coordinate signaling inputs (PubMed:<a href="http://www.uniprot.org/citations/15096511" target="\_blank">15096511</a>).

#### Cellular Location

Cell membrane; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:P48762}; Multi-pass membrane protein. Note=Localized basolaterally in every epithelial cell, except in the choroid plexus where SLC9A1 is expressed lumenally.

#### Tissue Location

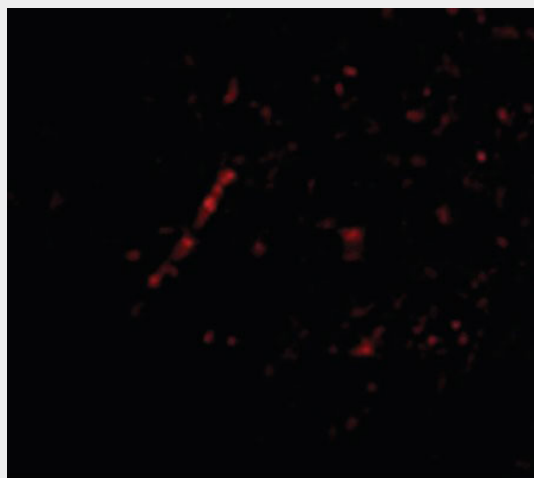
Kidney and intestine.

### SLC9A1 / NHE1 Antibody (C-Terminus) - Protocols

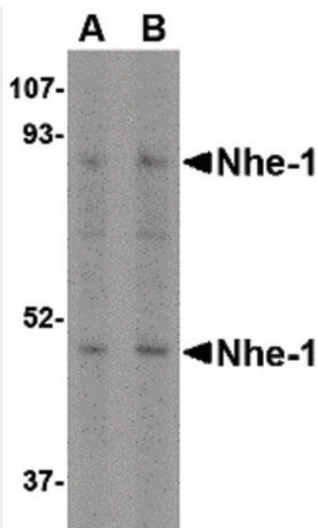
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### SLC9A1 / NHE1 Antibody (C-Terminus) - Images



Immunofluorescence of Nhe-1 in Human Brain cells with Nhe-1 antibody at 20 ug/ml.



Western blot of Nhe-1 in rat kidney tissue lysate with in with Nhe-1 antibody at (A) 1 and (B) 2...

#### **SLC9A1 / NHE1 Antibody (C-Terminus) - Background**

Involved in pH regulation to eliminate acids generated by active metabolism or to counter adverse environmental conditions. Major proton extruding system driven by the inward sodium ion chemical gradient. Plays an important role in signal transduction.

#### **SLC9A1 / NHE1 Antibody (C-Terminus) - References**

- Sardet C.,et al.Cell 56:271-280(1989).
- Sardet C.,et al.Science 247:723-726(1990).
- Tse C.-M.,et al.EMBO J. 10:1957-1967(1991).
- Fliegel L.,et al.Mol. Cell. Biochem. 125:137-143(1993).
- Garden O.A.,et al.Cancer Genet. Cytogenet. 120:37-43(2000).