

**Sodium hydrogen exchanger 1 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP54201****Specification****Sodium hydrogen exchanger 1 Polyclonal Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">P19634</a>
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	90763

**Sodium hydrogen exchanger 1 Polyclonal Antibody - 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

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glycerol

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**Sodium hydrogen exchanger 1 Polyclonal Antibody - 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: [11350981](http://www.uniprot.org/citations/11350981), PubMed: [11532004](http://www.uniprot.org/citations/11532004), PubMed: [14680478](http://www.uniprot.org/citations/14680478), PubMed: [15035633](http://www.uniprot.org/citations/15035633), PubMed: [15677483](http://www.uniprot.org/citations/15677483), PubMed: [17073455](http://www.uniprot.org/citations/17073455), PubMed: [17493937](http://www.uniprot.org/citations/17493937), PubMed: [22020933](http://www.uniprot.org/citations/22020933), PubMed: [27650500](http://www.uniprot.org/citations/27650500), PubMed: [32130622](http://www.uniprot.org/citations/32130622), PubMed: [7110335](http://www.uniprot.org/citations/7110335), PubMed: [7603840](http://www.uniprot.org/citations/7603840)). 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 functions also 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

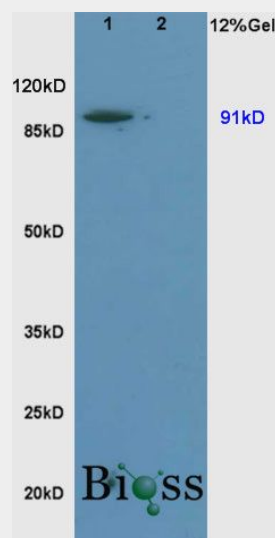
Kidney and intestine.

## Sodium hydrogen exchanger 1 Polyclonal Antibody - Protocols

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

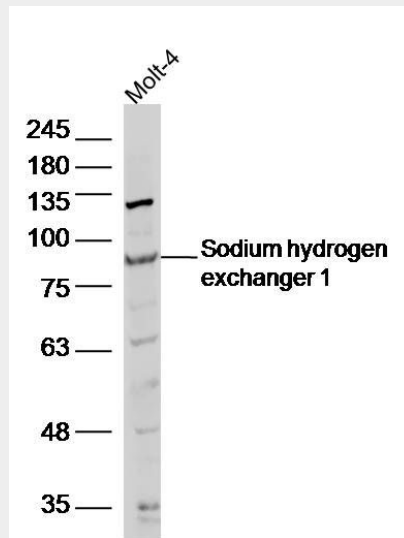
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Sodium hydrogen exchanger 1 Polyclonal Antibody - Images

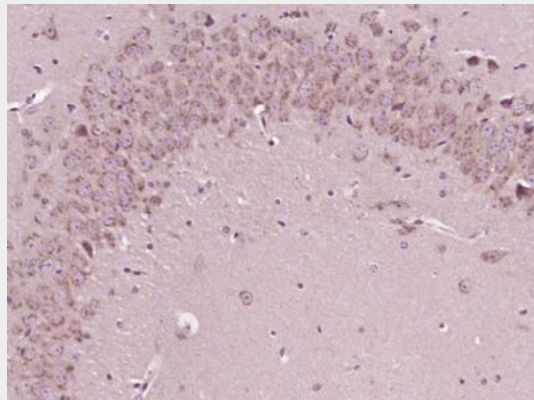


Sample:  
Brain(Rat) lysate at 30ug;

Liver(Rat) lysate at 30ug;  
Primary: Anti-NHE1 (bs-0505R) at 1:200 dilution;  
Secondary: HRP conjugated Goat-Anti-Rabbit IgG(bse-0295G) at 1: 3000 dilution;  
Predicted band size : 91kD  
Observed band size : 91kD  
We are unsure as to the identity of these extra bands



Sample:  
molt-4(human)cell Lysate at 40 ug  
Primary: Anti- Sodium hydrogen exchanger 1 (bs-0505R) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 91kD  
Observed band size: 91 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Sodium hydrogen exchanger 1) Polyclonal Antibody, Unconjugated (bs-0505R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.