

**Anti-NHE9 Antibody**  
**Rabbit polyclonal antibody to NHE9**  
**Catalog # AP59905****Specification**

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**Anti-NHE9 Antibody - Product Information**

Application	<b>WB, IP</b>
Primary Accession	<a href="#">Q8IVB4</a>
Other Accession	<a href="#">Q8BZ00</a>
Reactivity	<b>Human, Mouse, Rat, Monkey, Dog</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>72565</b>

**Anti-NHE9 Antibody - Additional Information****Gene ID** 285195**Other Names**

NHE9; Sodium/hydrogen exchanger 9; Na(+)/H(+) exchanger 9; NHE-9; Solute carrier family 9 member 9

**Target/Specificity**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human NHE9. The exact sequence is proprietary.

**Dilution**WB~~WB (1/500 - 1/1000), IP (1/10 - 1/100)  
IP~~N/A**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-NHE9 Antibody - Protein Information****Name** SLC9A9 ([HGNC:20653](#))**Synonyms** NHE9**Function**

Endosomal Na(+), K(+)/H(+) antiporter. Mediates the electroneutral exchange of endosomal luminal H(+) for a cytosolic Na(+) or K(+) (Probable). By facilitating proton efflux, SLC9A9 counteracts the acidity generated by vacuolar (V)-ATPase, thereby limiting luminal acidification. Regulates organellar pH and consequently, e.g., endosome maturation and endocytic trafficking of

plasma membrane receptors and neurotransmitters (PubMed:<a href="http://www.uniprot.org/citations/15522866" target="\_blank">15522866</a>, PubMed:<a href="http://www.uniprot.org/citations/24065030" target="\_blank">24065030</a>, PubMed:<a href="http://www.uniprot.org/citations/28130443" target="\_blank">28130443</a>). Promotes the recycling of transferrin receptors back to the cell surface to facilitate additional iron uptake in the brain (PubMed:<a href="http://www.uniprot.org/citations/28130443" target="\_blank">28130443</a>). Regulates synaptic transmission by regulating the luminal pH of axonal endosomes (By similarity). Regulates phagosome luminal pH, thus affecting phagosome maturation, and consequently, microbicidal activity in macrophages (By similarity). Can also be active at the cell surface of specialized cells, e.g., in the inner ear hair bundles uses the high K(+) of the endolymph to regulate intracellular pH (By similarity).

#### **Cellular Location**

Late endosome membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:F7B113}. Early endosome membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:F7B113}. Recycling endosome membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:F7B113}. Cell membrane {ECO:0000250|UniProtKB:Q8BZ00}; Multi-pass membrane protein {ECO:0000250|UniProtKB:F7B113}. Cytoplasmic vesicle, phagosome membrane {ECO:0000250|UniProtKB:Q8BZ00}; Multi-pass membrane protein {ECO:0000250|UniProtKB:F7B113}. Note=Localized to the plasma membrane in inner ear hair cell bundle. {ECO:0000250|UniProtKB:Q8BZ00}

#### **Tissue Location**

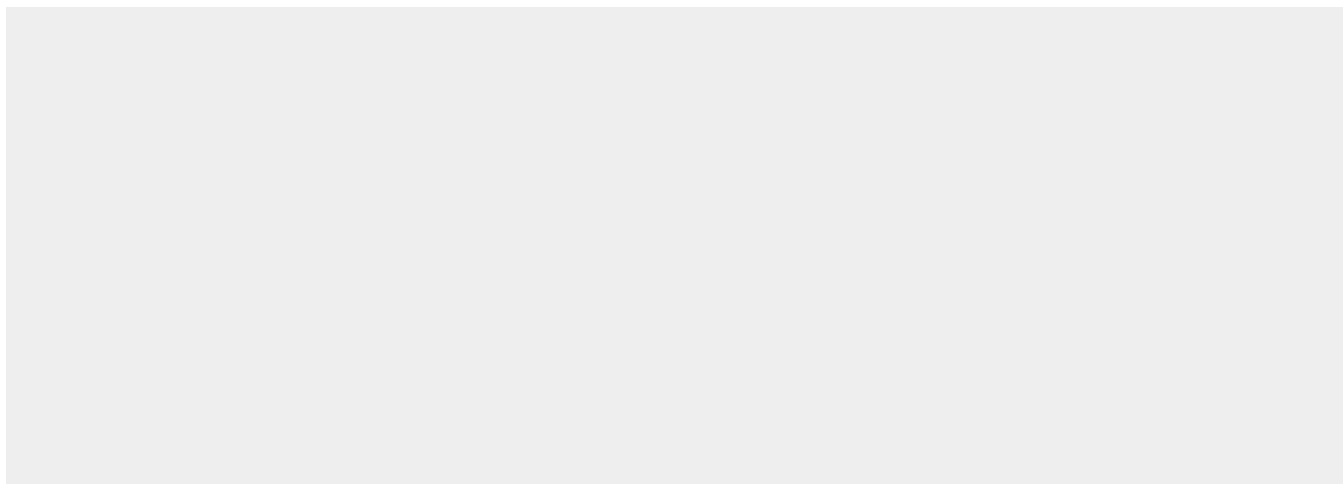
Ubiquitously expressed in all tissues tested. Expressed at highest levels in heart and skeletal muscle, followed by placenta, kidney, and liver. Expressed in the brain, in the medulla and spinal cord.

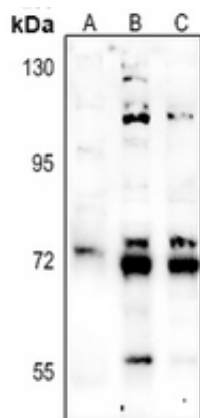
#### **Anti-NHE9 Antibody - Protocols**

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](#)

#### **Anti-NHE9 Antibody - Images**





Western blot analysis of NHE9 expression in rat heart (A), A549 (B), HepG2 (C) whole cell lysates.

#### **Anti-NHE9 Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human NHE9. The exact sequence is proprietary.