

# **Anti-NHE9 Antibody**

Rabbit polyclonal antibody to NHE9 Catalog # AP59905

### **Product Information**

Application WB, IP
Primary Accession Q8IVB4
Other Accession O8BZ00

**Reactivity** Human, Mouse, Rat, Monkey, Drosophila

Host Rabbit
Clonality Polyclonal
Calculated MW 72565

### **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

### **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 neurotransporters

(PubMed:15522866, PubMed:24065030, PubMed:28130443). Promotes the recycling of transferrin receptors back to the cell surface to facilitate additional iron uptake in the brain (PubMed:28130443). Regulates synaptic transmission by regulating the luminal pH of axonal endosomes (By similarity). Regulates phagosome lumenal 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 intracelular 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}

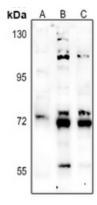
### **Tissue Location**

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.

## **Background**

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

### **Images**



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

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