

NHE6 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51863**Specification**

NHE6 Antibody - Product Information

Application	WB, E
Primary Accession	O92581
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	74 KDa

NHE6 Antibody - Additional Information**Gene ID** 10479**Other Names**

Sodium/hydrogen exchanger 6, Na(+)/H(+) exchanger 6, NHE-6, Solute carrier family 9 member 6, SLC9A6, KIAA0267, NHE6

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human NHE6. The exact sequence is proprietary.

Dilution

WB~~1:1000

E~~N/A

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

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

NHE6 Antibody - Protein Information**Name** SLC9A6 ([HGNC:11079](#))**Synonyms** KIAA0267, NHE6**Function**

Endosomal Na(+), K(+)/H(+) antiporter (PubMed:15522866, PubMed:28635961, PubMed:31676550, PubMed:32277048). Mediates the electroneutral exchange of endosomal luminal H(+) for a cytosolic Na(+) or K(+). By facilitating

proton efflux, SLC9A6 counteracts the acidity generated by vacuolar (V)-ATPase, thereby limiting luminal acidification. Responsible for alkalizing and maintaining the endosomal pH, and consequently in, e.g., endosome maturation and trafficking of recycling endosomal cargo (PubMed:15522866, PubMed:28635961, PubMed:31676550, PubMed:32277048). Plays a critical role during neurodevelopment by regulating synaptic development and plasticity (By similarity). Implicated in the maintenance of cell polarity in a manner that is dependent on its ability to modulate intravesicular pH (PubMed:20130086). Regulates intracellular pH in some specialized cells, osteoclasts and stereocilia where this transporter localizes to the plasma membrane (By similarity).

Cellular Location

Endosome membrane; Multi-pass membrane protein. Recycling endosome membrane; Multi-pass membrane protein. Early endosome membrane; Multi-pass membrane protein. Late endosome membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Note=Present predominantly in the recycling compartments including early and recycling endosomes, but undergoes plasma membrane localization during vesicular recycling, which is enhanced upon certain stimuli, such as hypoxia (PubMed:11940519, PubMed:28635961, PubMed:30296617). Has a major plasmalemmal distribution in a few specialized cells, such as in vestibular hair bundles and osteoblasts (By similarity) {ECO:0000250|UniProtKB:A1L3P4, ECO:0000269|PubMed:11940519, ECO:0000269|PubMed:28635961, ECO:0000269|PubMed:30296617}

Tissue Location

Ubiquitous. High expression in brain, skeletal muscle, and heart, but is also detected at lower levels in most other tissues.

NHE6 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](#)

NHE6 Antibody - Images

NHE6 Antibody - Background

Electroneutral exchange of protons for Na(+) and K(+) across the early and recycling endosome membranes. Contributes to calcium homeostasis.

NHE6 Antibody - References

Numata M.,et al.J. Biol. Chem. 273:6951-6959(1998).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Ross M.T.,et al.Nature 434:325-337(2005).
Nagase T.,et al.DNA Res. 3:321-329(1996).

Brett C.L.,et al.Am. J. Physiol. 282:C1031-C1041(2002).