

# NHE6 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51863

## Product Information

Application	WB
Primary Accession	<a href="#">Q92581</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	77917

## 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
Dilution	WB~~1:1000
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

## Protein Information

Name	SLC9A6 ( <a href="#">HGNC:11079</a> )
Synonyms	KIAA0267, NHE6
Function	Endosomal Na(+), K(+)/H(+) antiporter (PubMed: <a href="#">15522866</a> , PubMed: <a href="#">28635961</a> , PubMed: <a href="#">31676550</a> , PubMed: <a href="#">32277048</a> ). 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: <a href="#">15522866</a> , PubMed: <a href="#">28635961</a> , PubMed: <a href="#">31676550</a> , PubMed: <a href="#">32277048</a> ). 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: <a href="#">20130086</a> ). 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.

**Background**

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

**References**

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Ota T.,et al.Nat. Genet. 36:40-45(2004).  
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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.