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NHE-6 Polyclonal Antibody

Catalog # AP71300

Product Information

Application	WB
Primary Accession	Q92581
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	77917

Additional Information

Gene ID	10479
Other Names	SLC9A6; KIAA0267; NHE6; Sodium/hydrogen exchanger 6; Na(+)/H(+) exchanger 6; NHE-6; Solute carrier family 9 member 6
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

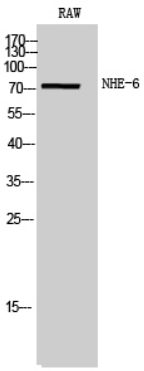
Name	SLC9A6 (HGNC:11079)
Synonyms	KIAA0267, NHE6
Function	Endosomal Na(+), K(+)/H(+) antiporter (PubMed: 15522866, PubMed:28635961, PubMed:31676550, PubMed:32277048). Mediates the electroneutral exchange of endosomal luminal H(+) for a cytosolic Na(+) or K(+). By facilitating proton efflux, SLC9A6 counteracts 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 intracelular 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

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

Images



Western Blot analysis of RAW cells using NHE-6 Polyclonal Antibody