

NHE-8 Polyclonal Antibody
Catalog # AP71302**Specification****NHE-8 Polyclonal Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	Q9Y2E8
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

NHE-8 Polyclonal Antibody - Additional Information**Gene ID** 23315**Other Names**

SLC9A8; KIAA0939; NHE8; Sodium/hydrogen exchanger 8; Na(+)/H(+) exchanger 8; NHE-8; Solute carrier family 9 member 8

Dilution

WB~~Western Blot: 1/500 - 1/2000.IHC-p:1:50-300 ELISA: 1/20000. Not yet tested in other applications.

IHC-P~~N/A

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

NHE-8 Polyclonal Antibody - Protein Information**Name** SLC9A8 ([HGNC:20728](#))**Synonyms** KIAA0939, NHE8**Function**

Na(+)/H(+) antiporter. Mediates the electroneutral exchange of intracellular H(+) ions for extracellular Na(+) in 1:1 stoichiometry (PubMed:15522866). Acts as an Na(+)/H(+) exchanger in the trans-Golgi. Contributes to the regulation of pH regulation of Golgi apparatus, and consequently, in protein trafficking and endosomal morphology (PubMed:15522866, PubMed:20719963). In germ cells, plays a crucial role in acrosome biogenesis and sperm development, probably by playing a role in the fusion of the Golgi-derived vesicles that form the acrosomal cap (By similarity). Can also be active at the cell surface of specialized cells. In the small intestine, at the cell membrane, plays a major physiological role in transepithelial absorption of Na(+) and regulates intracellular pH

homeostasis of intestinal epithelial cells (PubMed:34288721). Acts as an important regulator of mucosal integrity in the intestine and in the stomach, could mediate the pH fluctuation necessary for mucin exocytosis or assist membrane trafficking of other proteins (By similarity). Plays a role in photoreceptor survival and in the maintenance of intracellular pH homeostasis in retinal pigment epithelium (RPE cells) (By similarity).

Cellular Location

Golgi apparatus membrane; Multi-pass membrane protein. Golgi apparatus, trans-Golgi network membrane; Multi-pass membrane protein. Endosome, multivesicular body membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein. Cytoplasmic vesicle, secretory vesicle, acrosome {ECO:0000250|UniProtKB:Q8R4D1} Note=Intracellular versus plasma membrane-resident location may vary with cell type. Mainly localized to the mid- to trans-Golgi compartments but a proportion is also localized to multivesicular bodies (PubMed:15522866, PubMed:20719963). Localized at the apical membrane of polarized gastrointestinal epithelial cells (By similarity). Recruitment to the plasma membrane upon acid stimulation (By similarity). {ECO:0000250|UniProtKB:Q4L208, ECO:0000269|PubMed:15522866, ECO:0000269|PubMed:20719963}

Tissue Location

Ubiquitous. Strongly expressed in skeletal muscle and kidney (PubMed:15522866). Detected throughout the entire gastrointestinal tract, with high expression detected in stomach, duodenum and ascending colon (PubMed:18209477)

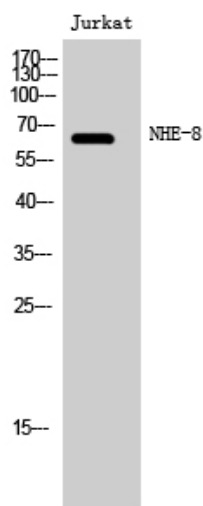
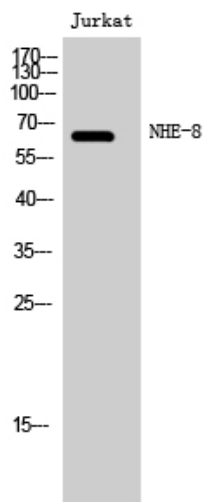
NHE-8 Polyclonal Antibody - Protocols

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](#)

NHE-8 Polyclonal Antibody - Images





NHE-8 Polyclonal Antibody - Background

Involved in pH regulation to eliminate acids generated by active metabolism or to counter adverse environmental conditions. Major proton extruding system driven by the inward sodium ion chemical gradient. Plays an important role in signal transduction.