

# NHE-8 Polyclonal Antibody

Catalog # AP71302

## Product Information

Application	WB, IHC-P
Primary Accession	<a href="#">Q9Y2E8</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	65422

## 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

## Protein Information

Name	SLC9A8 ( <a href="#">HGNC:20728</a> )
Synonyms	KIAA0939, NHE8
Function	Na(+)/H(+) antiporter. Mediates the electroneutral exchange of intracellular H(+) ions for extracellular Na(+) in 1:1 stoichiometry (PubMed: <a href="#">15522866</a> ). 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: <a href="#">15522866</a> , PubMed: <a href="#">20719963</a> ). 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: <a href="#">34288721</a> ). 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}

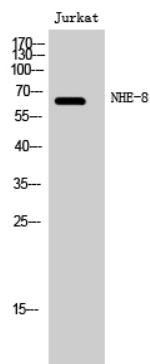
### Tissue Location

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)

## 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.

## Images



Western Blot analysis of Jurkat cells using NHE-8 Polyclonal Antibody

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