

# Anti-NHE8 Antibody

Rabbit polyclonal antibody to NHE8 Catalog # AP60781

## **Product Information**

Application	WB, IF/IC, IHC
Primary Accession	<u>Q9Y2E8</u>
Reactivity	Human, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	65422

#### **Additional Information**

Gene ID	23315
Other Names	KIAA0939; NHE8; Sodium/hydrogen exchanger 8; Na(+)/H(+) exchanger 8; NHE-8; Solute carrier family 9 member 8
Target/Specificity	Recognizes endogenous levels of NHE8 protein.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IF/IC (1/100 - 1/500) IF/IC~~N/A IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IF/IC (1/100 - 1/500)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

### **Protein Information**

	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:000250 UniProtKB:Q4L208, ECO:0000269 PubMed:15522866, ECO:000269 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

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human NHE8. The exact sequence is proprietary.

#### Images



Western blot analysis of NHE8 expression in HepG2 (A), U87MG (B), HEK293T (C), LO2 (D) whole cell lysates.



Immunohistochemical analysis of NHE8 staining in human skeletal muscle formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of NHE8 staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

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