



## Rabbit Anti-hydrogen exchanger 3 antibody

SL8601R

<b>Product Name:</b>	hydrogen exchanger 3
<b>Chinese Name:</b>	钠离子/氢离子Exchange protein3抗体
<b>Alias:</b>	Na(+)/H(+) exchanger 3; NHE 3; NHE-3; NHE3; SL9A3_HUMAN; SLC9A 3; Sodium; Slc9a3; Sodium/hydrogen exchanger 3; Sodium/hydrogen exchanger, apical epithelial; Solute carrier family 9 (sodium/hydrogen exchanger), isoform 3; Solute carrier family 9 (sodium/hydrogen exchanger), member 3; Solute carrier family 9 member 3; MGC126718; MGC126720.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Pig,Cow,Horse,Rabbit,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	93kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human NHE3:301-200/834<Extracellular>
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	NHE-3 are integral membrane proteins that are expressed in most mammalian tissues, where they regulate intracellular pH and cell volume. NHEs mediate the transport of

hydrogen (H<sup>+</sup>) ions out of cells in exchange for extracellular sodium (Na<sup>+</sup>) ions. While NHE-1 is ubiquitously expressed, the NHE isoforms 2-8 have distinct tissue- and cell type-dependent expression and inhibitory characteristics. NHE-3 localizes to the apical membrane of renal proximal tubules where it is responsible for most of the sodium transport and fluid reabsorption. NHE-3 translocates to internal pools where it mediates natriuresis when blood pressure increases abruptly. NHE-3 is also expressed in the stomach and functions to protect the mucosa by secreting protons that diffuse into the mucous cells.

**Function:**

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.

**Subunit:**

Binds SLC9A3R1 and SLC9A3R2. Interacts with CHP1, CHP2 and SHANK2. Interacts with PDZD3 and interactions decrease in response to elevated calcium ion levels

**Subcellular Location:**

Membrane. In intestinal epithelial cells, localizes to the ileal brush border.

**Post-translational modifications:**

Phosphorylated by PKA, which inhibits activity.

**Similarity:**

Belongs to the monovalent cation:proton antiporter 1 (CPA1) transporter (TC 2.A.36) family.

**SWISS:**

P48764

**Gene ID:**

6550

**Database links:**

[Entrez Gene: 6550](#)Human

[Entrez Gene: 24784](#)Rat

[Omim: 182307](#)Human

[SwissProt: P48764](#)Human

[SwissProt: P26433](#)Rat

[Unigene: 658120](#)Human

[Unigene: 9706](#)Rat

	<p><b>Important Note:</b></p>
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This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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