SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-hydrogen exchanger 3 antibody

Catalog Number: SL22547R

FOR RESEARCH USE ONLY

[DATASHEET]

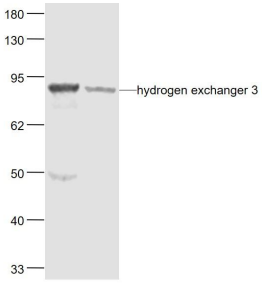
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	hydrogen exchanger 3
Immunogen:	KLH conjugated synthetic peptide derived from human hydrogen exchanger 3 : 581-680/834 <Cytoplasmic>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse, Rat, (predicted: Human, Pig, Cow, Rabbit, Sheep)
Predicted MW.:	93kDa
Subcellular Location:	The cell membrane
Background:	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+) ions out of cells in exchange for extracellular sodium (Na+) 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

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	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. **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

[VALIDATION IMAGES]



Sample:
Kidney (Mouse) Lysate at 40 ug
Kidney (Rat) Lysate at 40 ug
Primary: Anti-hydrogen exchanger 3 (SL22547R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 80 kD
Observed band size: 80 kD

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