bs-8601R **[Primary Antibody]**

hydrogen exchanger 3 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 6550 **SWISS:** P48764

Target: hydrogen exchanger 3

Immunogen: KLH conjugated synthetic peptide derived from human NHE3: 301-400/834. < Extracellular >

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°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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.

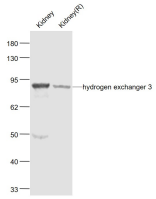
Applications: **WB** (1:500-2000)

Reactivity: Mouse, Rat (predicted: Human, Rabbit, Pig, Sheep, Cow)

Predicted MW.: 93 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Kidney (Mouse) Lysate at 40 ug Kidney (Rat) Lysate at 40 ug Primary: Anti-hydrogen exchanger 3 (bs-8601R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 80 kD Observed band size: 80 kD

SELECTED CITATIONS

- **[IF=9.2]** Zhou Xihong. et al. Colonic phosphocholine is correlated with Candida tropicalis and promotes diarrhea and pathogen clearance. NPJ BIOFILMS MICROBI. 2023 Sep;9(1):1-13 WB ;Pig. 37666845
- **[IF=3.616]** Zhenhui Song. et al. Reduced activity of intestinal surface Na+/H+ exchanger NHE3 is a key factor for induction of diarrhea after PEDV infection in neonatal piglets. Virology. 2021 Nov;563:64 IF ;Pig. 34464882