bs-6106R **[Primary Antibody]**

SLC5A8 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 160728 **SWISS:** Q8N695

Target: SLC5A8

Immunogen: KLH conjugated synthetic peptide derived from human SLC5A8: 301-400/610. < 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: Acts as an electrogenic sodium (Na(+)) and chloride (Cl-)-dependent sodium-coupled solute transporter, including transport of monocarboxylates (short-chain fatty acids including L-lactate, D-lactate, pyruvate, acetate, propionate, valerate and butyrate), lactate, mocarboxylate drugs (nicotinate, benzoate, salicylate and 5-aminosalicylate) and ketone bodies (beta-D-hydroxybutyrate, acetoacetate and alpha-ketoisocaproate), with a Na(+):substrate stoichiometry of between 4:1 and 2:1. Catalyzes passive carrier mediated diffusion of iodide. Mediates iodide transport from the thyrocyte into the colloid lumen through the apical membrane. May be responsible for the absorption of D-lactate and monocarboxylate drugs from the intestinal tract. Acts as a tumor suppressor, suppressing colony formation in colon cancer, prostate cancer and glioma cell lines. May play a critical role in the entry of L-lactate and ketone bodies into neurons by a process driven by an electrochemical Na(+) gradient and hence contribute to the maintenance of the energy status and function of neurons.

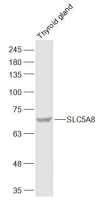
Applications: **WB** (1:500-2000)

Reactivity: Rat (predicted: Human, Mouse, Cow, Chicken, Dog)

Predicted MW.: 67 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Thyroid gland (Rat) Lysate at 40 ug
Primary: Anti-SLC5A8 (bs-6106R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 67 kD Observed band size: 70 kD

SELECTED CITATIONS

- **[IF=6.575]** Laura Benvenuti. et al. Dietary supplementation with the probiotic SF68 reinforces intestinal epithelial barrier in obese mice by improving butyrate bioavailability. MOL NUTR FOOD RES. 2023 Apr;:2200442 WB ;Mouse. 37099449