bs-4189R **[Primary Antibody]**

SLC10A2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 6555 **SWISS:** Q12908

Target: SLC10A2

Immunogen: KLH conjugated synthetic peptide derived from human ASBT: 131-230/348. < 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: SLC10A2 plays a critical role in reabsorption of bile acids from the the small intestine lumen. Passive flow of sodium ions down their concentration gradient is coupled to bile acid movement, resulting in an increase in the concentration of bile acids in the interior of the cell. This action conserves the body's pool of re-circulating bile acid. SLC10A2 also plays a key role in cholesterol metabolism as cholesterol is the precursor molecule in bile acid synthesis mediated by CYP7A and FXR.

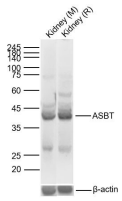
Applications: **WB** (1:500-2000)
ELISA (1:5000-10000)

Reactivity: Mouse, Rat

Predicted MW.: 38 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Lane 1: Mouse Kidney Lysates Lane 2: Rat Kidney Lysates Primary: Anti-ASBT/SLC10A2 (bs-4189R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 38kDa Observed band size: 38kDa

SELECTED CITATIONS

- **[IF=11.3]** Kweon Seho. et al. Design of chimeric GLP-1A using oligomeric bile acids to utilize transporter-mediated endocytosis for oral delivery. Biomaterials Research. 2023 Dec;27(1):1-18 WB ;Canine. 37660070
- **[IF=7.9]** Li Xiao. et al. Kaempferol ameliorated alcoholic liver disease through inhibiting hepatic bile acid synthesis by targeting intestinal FXR-FGF15 signaling. PHYTOMEDICINE. 2023 Nov;120:155055 WB ;Mouse. 37678053
- **[IF=8]** Seho Kweon. et al. Coordinated ASBT and EGFR Mechanisms for Optimized Liraglutide Nanoformulation Absorption in the GI Tract. INT J NANOMED. 2024; 19: 2973–2992 IF ;Dog,Human. 38544951
- **[IF=2.97]** Wu, Hao, et al. "The antihypercholesterolemic effect of jatrorrhizine isolated from Rhizoma Coptidis." Phytomedicine (2014). WB ;="". 24894270
- **[IF=1.69]** Ding et al. Bile acid promotes liver regeneration via farnesoid X receptor signaling pathways in rats. (2015) Mol.Med.Re. 11:4431-7 WB ;rat. 25634785