**bs-19825R** **[ Primary Antibody ]**

# SLC38A1 Rabbit pAb

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## DATASHEET

**Host:** Rabbit **Isotype:** IgG

**Clonality:** Polyclonal

**GeneID:** 81539 **SWISS:** Q9H2H9

**Target:** SLC38A1

**Immunogen:** KLH conjugated synthetic peptide derived from human SLC38A1: 211-300/487.

**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:** Amino acid transporters play essential roles in the uptake of nutrients, production of energy, chemical metabolism, detoxification, and neurotransmitter cycling. SLC38A1 is an important transporter of glutamine, an intermediate in the detoxification of ammonia and the production of urea. Glutamine serves as a precursor for the synaptic transmitter, glutamate (Gu et al., 2001 [PubMed 11325958]).[supplied by OMIM, Mar 2008]

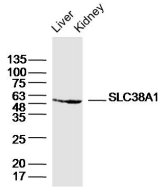
**Applications:** **WB** (1:500-2000)

**Reactivity:** Mouse, Rat
(predicted: Human, Pig, Cow, Cat, GuineaPig)

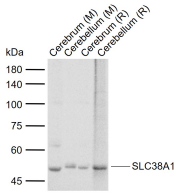
**Predicted MW.:** 54 kDa

**Subcellular Location:** Cell membrane

## VALIDATION IMAGES




Sample: Liver (Mouse) Lysate at 40 ug Kidney (Mouse) Lysate at 40 ug Primary: Anti- SLC38A1 (bs-19825R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 54kD Observed band size: 54kD




Sample: Lane 1: Mouse Cerebrum tissue lysates Lane 2: Mouse Cerebellum tissue lysates Lane 3: Rat Cerebrum tissue lysates Lane 4: Rat Cerebellum tissue lysates Primary: Anti-SLC38A1 (bs-19825R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 54 kDa Observed band size: 50 kDa

## SELECTED CITATIONS

- **[IF=4.9]** Paige L. Snider. et al. A Barth Syndrome Patient-Derived D75H Point Mutation in TAFAZZIN Drives Progressive Cardiomyopathy in Mice. INT J MOL SCI. 2024 Jan;25(15):8201 WB ;Mouse. 39125771