

**bs-12125R****[ Primary Antibody ]****SLC38A2 Rabbit pAb****Bioss**  
**ANTIBODIES**

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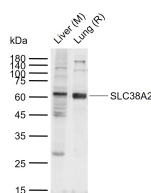
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**— DATASHEET —**

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> WB (1:500-2000)
<b>Clonality:</b> Polyclonal		<b>Reactivity:</b> Mouse, Rat (predicted: Human, Pig, Sheep, Cow, Dog, Horse)
<b>GeneID:</b> 54407	<b>SWISS:</b> Q96QD8	<b>Predicted MW.:</b> 56 kDa
<b>Target:</b> SLC38A2		<b>Subcellular Location:</b> Cell membrane ,Cytoplasm
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human SLC38A2/SNAT2: 21-150/506.		
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> 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.		
<b>Background:</b> The sodium-coupled neutral amino acid transporters (SNAT) of the SLC38 gene family include System A subtypes SNAT1, SNAT2 and SNAT4 and System N subtypes SNAT3 and SNAT5. The SLC38 transporters are essential for the uptake of nutrients, energy production, metabolism, detoxification, and the cycling of neurotransmitters. SNAT2, also designated ATA2, PRO1068 and SAT2 is encoded by the human gene SLC38A2. The functional role of SNAT2 in the nervous system is unclear. Protein expression is notably enriched in the spinal cord and brain stem nuclei of the auditory system. System A transport proteins are also present in placental tissue. These SNAT proteins may play a significant role in fetal development and inhibition of the transport system has been associated with fetal growth retardation.		

**— VALIDATION IMAGES —**

Sample: Lane 1: Mouse Liver tissue lysates Lane  
2: Rat Lung tissue lysates Primary: Anti-SLC38A2  
(bs-12125R) at 1/200 dilution Secondary:  
IRDye800CW Goat Anti-Rabbit IgG at 1/20000  
dilution Predicted band size: 56 kDa Observed  
band size: 60 kDa

**— SELECTED CITATIONS —**

- **[IF=16.174]** Zhao Xiaohui. et al. Chemoproteomics reveals microbiota-derived aromatic monoamine agonists for GPRC5A. NAT CHEM BIOL. 2023 May;;1-10 WB ;Human. 37248411
- **[IF=5.076]** Hu C et al. Placentae for Low Birth Weight Piglets Are Vulnerable to Oxidative Stress, Mitochondrial Dysfunction, and Impaired Angiogenesis. Oxid Med Cell Longev. 2020 May 25;2020:8715412. WB ;Pig. 32566107
- **[IF=5.1]** Xiaoyue Ma. et al. Prolactin Modulates the Proliferation and Secretion of Goat Mammary Epithelial Cells via Regulating Sodium-Coupled Neutral Amino Acid Transporter 1 and 2. CELLS-BASEL. 2024 Jan;13(17):1461 WB ;Goat. 39273030

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=3.6]** Mingzhi Xia. et al. miR-10b-5p promotes tumor growth by regulating cell metabolism in liver cancer via targeting SLC38A2. CANCER BIOL THER. 2024 Feb 23 WB ;Mouse,Human. 38390840
- **[IF=3.5]** Jiang Tingting. et al. SNAT2-mediated regulation of estrogen and progesterone in the proliferation of goat mammary epithelial cells. AMINO ACIDS. 2024 Dec;56(1):1-12 WB ;Goat. 38393495