bs-10958R **[Primary Antibody]**

SLC32A 1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 140679 **SWISS:** Q9H598

Target: SLC32A 1

Immunogen: KLH conjugated synthetic peptide derived from human SLC32A1: 1-100/525.

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: Synaptic transmission involves the controlled exocytosis of vesicles containing specific neurotransmitters. Usually, neurotransmitters are synthesized in the cytoplasm of the cell and must be transported into synaptic vesicles for release. The vesicular GABA transporter (VGAT) is responsible for loading γ-aminobutyric acid (GABA), an inhibitory neurotransmitter, from neuronal cytoplasm into synaptic vesicles and is expressed only in the nerve endings of inhibitory neurons that contain GABA and/or glycine. During neocortical development, VGAT expression barely precedes the maturation of inhibitory synaptogenesis, suggesting that it may contribute to the development of neocortical GABAergic circuitry. VGAT may also play a role in epileptogenesis and the recovery mechanisms that occur after a spontaneous seizure.

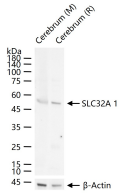
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ICC/IF (1:100-500)

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

Predicted MW.: 57 kDa

Subcellular Location: Cell membrane ,Cytoplasm

VALIDATION IMAGES



25 ug total protein per lane of various lysates (see on figure) probed with SLC32A 1 polyclonal antibody, unconjugated (bs-10958R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

SELECTED CITATIONS

- **[IF=3.9]** Wang Meng. et al. The involvement of the synaptic vesicle cycle in homocysteine induced neurotoxicity in vitro and in vivo. SCI REP-UK. 2025 May;15(1):1-14 WB ;Rat. 40442258

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