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SLC32A1 Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP12841b

Specification

SLC32A1 Antibody (C-term) Blocking peptide - Product Information

Primary Accession Q9H598

SLC32A1 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 140679

Other Names
Vesicular inhibitory amino acid transporter, GABA and glycine transporter, Solute carrier family 32 member 1, Vesicular GABA transporter, hVIAAT, SLC32A1, VGAT, VIAAT

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SLC32A1 Antibody (C-term) Blocking peptide - Protein Information

Name SLC32A1 (HGNC:11018)

Synonyms VGAT, VIAAT

Function
Antiporter that exchanges vesicular protons for cytosolic 4- aminobutanoate or to a lesser extend glycine, thus allowing their secretion from nerve terminals. The transport is equally dependent on the chemical and electrical components of the proton gradient (By similarity). May also transport beta-alanine (By similarity). Acidification of GABAergic synaptic vesicles is a prerequisite for 4-aminobutanoate uptake (By similarity).

Cellular Location
Cytoplasmic vesicle membrane {ECO:0000250|UniProtKB:O35458}; Multi-pass membrane protein. Presynapse {ECO:0000250|UniProtKB:O35633}. Note=Presents in glycine-, GABA- or GABA- and glycine-containing boutons {ECO:0000250|UniProtKB:O35458}

Tissue Location
Retina. Expressed throughout the horizontal cells or more specifically at the terminals.

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SLC32A1 Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

SLC32A1 Antibody (C-term) Blocking peptide - Images

SLC32A1 Antibody (C-term) Blocking peptide - Background

The protein encoded by this gene is an integral membraneprotein involved in gamma-aminobutyric acid (GABA) and glycineuptake into synaptic vesicles. The encoded protein is a member ofamino acid/polyamine transporter family II.

SLC32A1 Antibody (C-term) Blocking peptide - References

Juge, N., et al. J. Biol. Chem. 284(50):35073-35078(2009)Tabakoff, B., et al. BMC Biol. 7, 70 (2009) :Hashimoto, T., et al. Mol. Psychiatry 13(2):147-161(2008)Gasnier, B. Pflugers Arch. 447(5):756-759(2004)Geigerseder, C., et al. Neuroendocrinology 77(5):314-323(2003)