10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

SLC17A8 Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP13493a

Specification

SLC17A8 Antibody (N-term) Blocking peptide - Product Information

Primary Accession Q8NDX2

SLC17A8 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 246213

Other Names
Vesicular glutamate transporter 3, VGluT3, Solute carrier family 17 member 8, SLC17A8, VGLUT3

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13493a was selected from the N-term region of SLC17A8. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

SLC17A8 Antibody (N-term) Blocking peptide - Protein Information

Name SLC17A8

Synonyms VGLUT3

SLC17A8 Antibody (N-term) Blocking peptide - Background

This gene encodes a vesicular glutamate transporter. Theencoded protein transports the neurotransmitter glutamate intosynaptic vesicles before it is released into the synaptic cleft.Mutations in this gene are the cause of autosomal-dominantnonsyndromic type 25 deafness. Alternate splicing results inmultiple transcript variants.

SLC17A8 Antibody (N-term) Blocking peptide - References

Ruel, J., et al. Am. J. Hum. Genet. 83(2):278-292(2008)Linke, N., et al. Histol. Histopathol. 23(8):979-986(2008)Almqvist, J., et al. Protein Sci. 16(9):1819-1829(2007)Gong, J., et al. Brain Res. 1082(1):73-85(2006)Seal, R.P., et al. Handb Exp Pharmacol 175, 137-150 (2006) :

Function
Mediates the uptake of glutamate into synaptic vesicles at presynaptic nerve terminals of excitatory neural cells. May also mediate the transport of inorganic phosphate.

Cellular Location
Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane {ECO:0000250|UniProtKB:Q7TSF2}. Membrane; Multi-pass membrane protein. Cell junction, synapse, synaptosome {ECO:0000250|UniProtKB:Q7TSF2}

Tissue Location
Expressed in amygdala, cerebellum, hippocampus, medulla, spinal cord and thalamus.

SLC17A8 Antibody (N-term) Blocking peptide - Protocols

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

- Blocking Peptides