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SLC6A17 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13508b

Specification

SLC6A17 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q9H1V8
Other Accession	P31662, Q8BJI1, NP_001010898.1
Reactivity	**Human**
Predicted	**Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**81001**
Antigen Region	**647-675**

SLC6A17 Antibody (C-term) - Additional Information

Gene ID 388662

Other Names
Sodium-dependent neutral amino acid transporter SLC6A17, Sodium-dependent neurotransmitter transporter NTT4, Solute carrier family 6 member 17, SLC6A17, NTT4

Target/Specificity
This SLC6A17 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 647-675 amino acids from the C-terminal region of human SLC6A17.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
SLC6A17 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC6A17 Antibody (C-term) - Protein Information

Name SLC6A17 {ECO:0000250|UniProtKB:P31662, ECO:0000312|HGNC:HGNC:31399}

Function Synaptic vesicle transporter with apparent selectivity for neutral amino acids. The transport is sodium-coupled but chloride- independent, likely driven by the proton electrochemical gradient generated by vacuolar H(+)-ATPase in an overall electrogenic mechanism. May contribute to the synaptic uptake of neurotransmitter precursors in a process coupled in part to vesicle exocytosis.

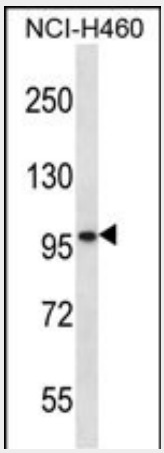
Cellular Location
Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane {ECO:0000250|UniProtKB:P31662}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P31662}. Postsynapse {ECO:0000250|UniProtKB:Q8BJI1}. Presynapse {ECO:0000250|UniProtKB:Q8BJI1}. Note=Localizes at synaptic junctions - at both pre- and post-synaptic sites - particularly in excitatory glutamatergic terminals. {ECO:0000250|UniProtKB:Q8BJI1}

SLC6A17 Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SLC6A17 Antibody (C-term) - Images



SLC6A17 Antibody (C-term) (Cat. #AP13508b) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the SLC6A17 antibody detected the SLC6A17 protein (arrow).

SLC6A17 Antibody (C-term) - Background

The SLC6 family of proteins, which includes SLC6A17, acts as specific transporters for neurotransmitters, amino acids, and osmolytes like betaine, taurine, and creatine. SLC6 proteins are sodium cotransporters that derive the energy for solute transport from the electrochemical gradient for sodium ions (Hoglund et al., 2005 [PubMed 16125675]).

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SLC6A17 Antibody (C-term) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Zaia, K.A., et al. J. Biol. Chem. 284(13):8439-8448(2009)
Hoglund, P.J., et al. Biochem. Biophys. Res. Commun. 336(1):175-189(2005)