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SLC6A17 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51524

Product Information

Application	WB
Primary Accession	Q9H1V8
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	81001

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	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human SLC6A17. The exact sequence is proprietary.
Dilution	WB~~1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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}

Background

Functions as a sodium-dependent vesicular transporter selective for proline, glycine, leucine and alanine. In contrast to other members of this neurotransmitter transporter family, does not appear to be chloride-dependent (By similarity).

References

Ota T.,et al.Nat. Genet. 36:40-45(2004).
Gregory S.G.,et al.Nature 441:315-321(2006).
Hoglund P.J.,et al.Biochem. Biophys. Res. Commun. 336:175-189(2005).