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Anti-SLC6A17 Antibody

Catalog # AP51524

Product Information

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

Additional Information

Gene ID	388662
Other Names	NTT4; Sodium-dependent neutral amino acid transporter SLC6A17; Sodium-dependent neurotransmitter transporter NTT4; Solute carrier family 6 member 17
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human SLC6A17. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

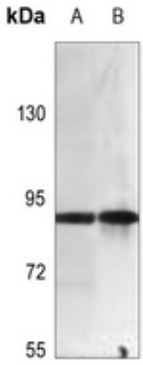
Name	SLC6A17 {ECO:0000250|UniProtKB:P31662, ECO:0000312|HGNC:HGNC:31399}
Function	Synaptic vesicle transporter with apparent selectivity for neutral amino acids. The transport is sodium-coupled but chloride- independent, likely driven by the proton electrochemical gradient generated by vacuolar H(+)-ATPase 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}

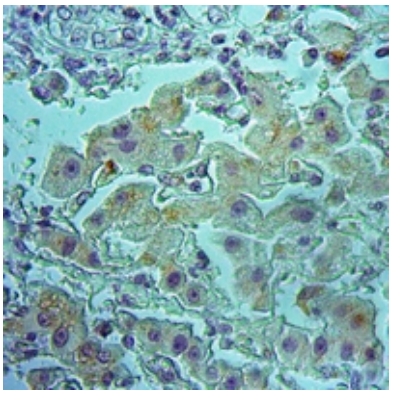
References

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).

Images



Western blot analysis of SLC6A17 expression in HEK293T (A), CT26 (B) whole cell lysates. (Predicted band size: 81 kD; Observed band size: 94 kD)



Immunohistochemical analysis of SLC6A17 staining in human liver cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.