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S6A12 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10503a

Product Information

Application	WB, FC, E
Primary Accession	P48065
Other Accession	NP_003035.3
Reactivity	Human
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24381
Calculated MW	69368
Antigen Region	9-38

Additional Information

Gene ID	6539
Other Names	Sodium- and chloride-dependent betaine transporter, BGT-1, Na(+)/Cl(-) betaine/GABA transporter, Solute carrier family 6 member 12, SLC6A12
Target/Specificity	This S6A12 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 9-38 amino acids from the N-terminal region of human S6A12.
Dilution	WB~~1:1000 FC~~1:10~50 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	S6A12 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SLC6A12 (HGNC:11045)
Function	Transporter that mediates cellular uptake of betaine and GABA in a sodium- and chloride-dependent process (PubMed:7589472). May have a role in

	regulation of GABAergic transmission in the brain through the reuptake of GABA into presynaptic terminals, as well as in osmotic regulation. Probably also involved in renal and hepatic osmotic regulation (By similarity).
Cellular Location	Basolateral cell membrane {ECO:0000250|UniProtKB:P31651}; Multi-pass membrane protein. Cell membrane {ECO:0000250|UniProtKB:P31651}; Multi-pass membrane protein. Note=In kidney, locates in basolateral membranes of renal medulla. In liver, locates in hepatocytes cell membrane. {ECO:0000250|UniProtKB:P31651}
Tissue Location	Expressed in kidney, liver, heart, skeletal muscle, placenta, and a widespread distribution in the brain

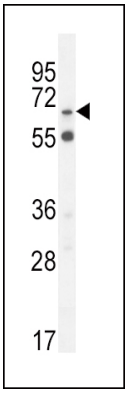
Background

Transports betaine and GABA. May have a role in regulation of GABAergic transmission in the brain through the reuptake of GABA into presynaptic terminals, as well as in osmotic regulation.

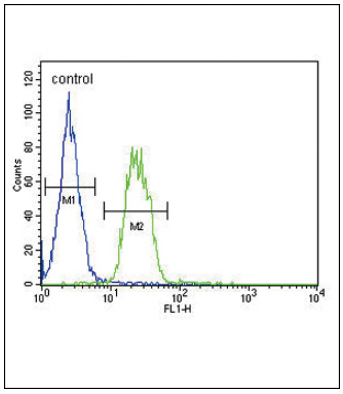
References

Pasaje, C.F., et al. Ann. Hum. Genet. 74(4):326-334(2010) Kottgen, A., et al. Nat. Genet. 42(5):376-384(2010) Yokoyama, K., et al. Nephron Clin Pract 115 (4), C237-C243 (2010) : Chapuis, J., et al. Mol. Psychiatry 14(11):1004-1016(2009) Gratacos, M., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 150B (6), 808-816 (2009) :

Images



S6A12 Antibody (N-term) (Cat. #AP10503a) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This demonstrates the S6A12 antibody detected the S6A12 protein (arrow).



S6A12 Antibody (N-term) (Cat. #AP10503a) flow cytometric analysis of MDA-MB231 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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