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S6A12 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10503a

Specification

S6A12 Antibody (N-term) - Product Information

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

S6A12 Antibody (N-term) - 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

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.

S6A12 Antibody (N-term) - 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}

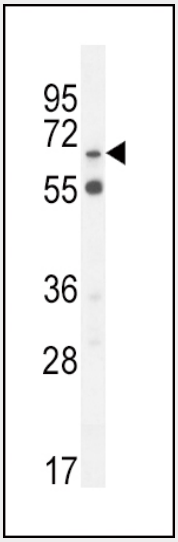
Tissue Location
Expressed in kidney, liver, heart, skeletal muscle, placenta, and a widespread distribution in the brain

S6A12 Antibody (N-term) - Protocols

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

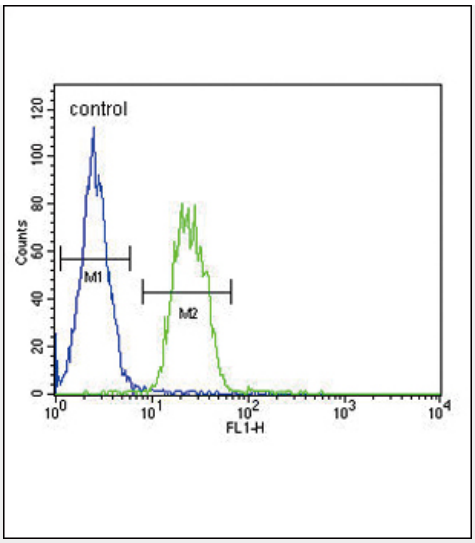
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

S6A12 Antibody (N-term) - 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).

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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.

S6A12 Antibody (N-term) - 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.

S6A12 Antibody (N-term) - 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) :