

S6A12 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10503a**Specification**

S6A12 Antibody (N-term) - Product Information

| | |
|-------------------|-----------------------------|
| Application | FC, WB,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

FC~~1:10~50

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

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

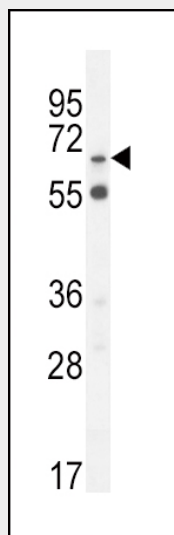
Expressed in kidney, liver, heart, skeletal muscle, placenta, and a widespread distribution in the brain

S6A12 Antibody (N-term) - Protocols

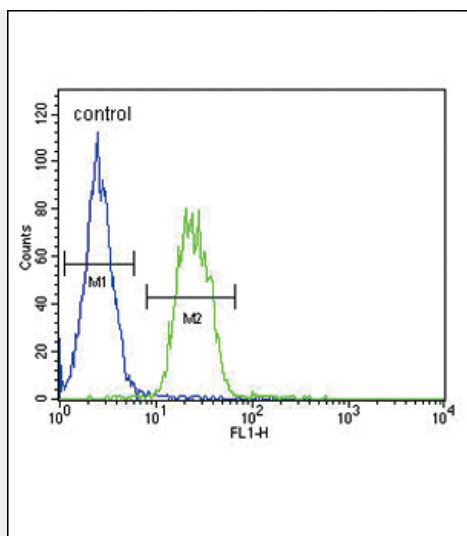
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [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).



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) :