

S6A12 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP10503a**Specification**

S6A12 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession [P48065](#)
Other Accession [NP_003035.3](#), [NP_001116320.1](#),
[NP_001116319.1](#)

S6A12 Antibody (N-term) Blocking Peptide - 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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

S6A12 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

S6A12 Antibody (N-term) Blocking Peptide - Images**S6A12 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - 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) :