

SLC12A6 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP12382a**Specification**

SLC12A6 Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [Q9UHW9](#)**SLC12A6 Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 9990**Other Names**

Solute carrier family 12 member 6, Electroneutral potassium-chloride cotransporter 3, K-Cl cotransporter 3, SLC12A6, KCC3

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.

SLC12A6 Antibody (N-term) Blocking peptide - Protein Information**Name** SLC12A6 ([HGNC:10914](#))**Function**

[Isoform 1]: Mediates electroneutral potassium-chloride cotransport when activated by cell swelling (PubMed: [10600773](http://www.uniprot.org/citations/10600773), PubMed: [11551954](http://www.uniprot.org/citations/11551954), PubMed: [16048901](http://www.uniprot.org/citations/16048901), PubMed: [18566107](http://www.uniprot.org/citations/18566107), PubMed: [19665974](http://www.uniprot.org/citations/19665974), PubMed: [21628467](http://www.uniprot.org/citations/21628467), PubMed: [27485015](http://www.uniprot.org/citations/27485015)). May contribute to cell volume homeostasis in single cells (PubMed: [16048901](http://www.uniprot.org/citations/16048901), PubMed: [27485015](http://www.uniprot.org/citations/27485015)).

Cellular Location

Cell membrane; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:Q924N4}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q924N4}

Tissue Location

Expressed in brain (at protein level) (PubMed:21628467). Highly expressed in heart, brain and kidney Detected at lower levels in skeletal muscle, placenta, lung and pancreas (PubMed:10600773). Detected in umbilical vein endothelial cells (PubMed:16048901). [Isoform 5]: Testis specific.

SLC12A6 Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

SLC12A6 Antibody (N-term) Blocking peptide - Images**SLC12A6 Antibody (N-term) Blocking peptide - Background**

This gene is a member of the K-Cl cotransporter (KCC)family. K-Cl cotransporters are integral membrane proteins thatlower intracellular chloride concentrations below theelectrochemical equilibrium potential. The proteins encoded by thisgene are activated by cell swelling induced by hypotonicconditions. Alternate splicing results in multiple transcriptvariants encoding different isoforms. Mutations in this gene areassociated with agenesis of the corpus callosum with peripheralneuropathy.

SLC12A6 Antibody (N-term) Blocking peptide - References

Rinehart, J., et al. Cell 138(3):525-536(2009)Rudnik-Schoneborn, S., et al. Neuropediatrics 40(3):129-133(2009)de Krom, M., et al. Biol. Psychiatry 65(7):625-630(2009)Moser, D., et al. Neuropsychopharmacology 34(2):458-467(2009)Salin-Cantegrel, A., et al. Hum. Mol. Genet. 17(17):2703-2711(2008)