

SLC12A3 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP8971c**Specification**

SLC12A3 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P55017](#)**SLC12A3 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 6559**Other Names**

Solute carrier family 12 member 3, Na-Cl cotransporter, NCC, Na-Cl symporter, Thiazide-sensitive sodium-chloride cotransporter, SLC12A3, NCC, TSC

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP8971c](/products/AP8971c) was selected from the Center region of human SLC12A3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

SLC12A3 Antibody (Center) Blocking Peptide - Protein Information**Name** SLC12A3 {ECO:0000303|PubMed:8812482, ECO:0000312|HGNC:HGNC:10912}**Function**

Electroneutral sodium and chloride ion cotransporter, which acts as a key mediator of sodium and chloride reabsorption in kidney distal convoluted tubules (PubMed:[21613606](http://www.uniprot.org/citations/21613606), PubMed:[18270262](http://www.uniprot.org/citations/18270262), PubMed:[22009145](http://www.uniprot.org/citations/22009145), PubMed:[36351028](http://www.uniprot.org/citations/36351028), PubMed:[36792826](http://www.uniprot.org/citations/36792826)). Also acts as a receptor for the pro-inflammatory cytokine IL18, thereby contributing to IL18-induced cytokine production, including IFNG, IL6, IL18 and CCL2 (By similarity). May act either independently of IL18R1, or in a complex with IL18R1 (By similarity).

Cellular Location

Cell membrane; Multi-pass membrane protein. Apical cell membrane {ECO:0000250|UniProtKB:P59158}; Multi-pass membrane protein

Tissue Location

Predominantly expressed in the kidney (at protein level) (PubMed:29993276, PubMed:8812482). Localizes to the distal convoluted tubules (at protein level)(PubMed:29993276). Not detected in normal aorta, but abundantly expressed in fatty streaks and advanced atherosclerotic lesions (at protein level) (PubMed:26099046)

SLC12A3 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

SLC12A3 Antibody (Center) Blocking Peptide - Images**SLC12A3 Antibody (Center) Blocking Peptide - Background**

SLC12A3 is a renal thiazide-sensitive sodium-chloride cotransporter that is important for electrolyte homeostasis. This cotransporter mediates sodium and chloride reabsorption in the distal convoluted tubule.

SLC12A3 Antibody (Center) Blocking Peptide - References

Mastroianni,N.,et.al., Genomics 35 (3), 486-493 (1996)Simon,D.B., et.al., Nat. Genet. 12 (1), 24-30 (1996)