

**SLC12A7 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12392a****Specification**

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**SLC12A7 Antibody (N-term) Blocking peptide - Product Information**Primary Accession [Q9Y666](#)**SLC12A7 Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 10723**Other Names**

Solute carrier family 12 member 7, Electroneutral potassium-chloride cotransporter 4, K-Cl cotransporter 4, SLC12A7, KCC4

**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.

**SLC12A7 Antibody (N-term) Blocking peptide - Protein Information****Name** SLC12A7 ([HGNC:10915](#))**Function**

Mediates electroneutral potassium-chloride cotransport when activated by cell swelling (PubMed:&lt;a href="http://www.uniprot.org/citations/10913127" target="\_blank"&gt;10913127&lt;/a&gt;). May mediate K(+) uptake into Deiters' cells in the cochlea and contribute to K(+) recycling in the inner ear. Important for the survival of cochlear outer and inner hair cells and the maintenance of the organ of Corti. May be required for basolateral Cl(-) extrusion in the kidney and contribute to renal acidification (By similarity).

**Cellular Location**

Cell membrane; Multi-pass membrane protein

**Tissue Location**

Detected in muscle, brain, lung, heart and kidney.

**SLC12A7 Antibody (N-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

#### **SLC12A7 Antibody (N-term) Blocking peptide - Images**

#### **SLC12A7 Antibody (N-term) Blocking peptide - Background**

SLC12A7 mediates electroneutral potassium-chloride cotransport when activated by cell swelling. May mediate K(+) uptake into Deiters' cells in the cochlea and contribute to K(+) recycling in the inner ear. Important for the survival of cochlear outer and inner hair cells and the maintenance of the organ of Corti. May be required for basolateral Cl(-) extrusion in the kidney and contribute to renal acidification (By similarity).

#### **SLC12A7 Antibody (N-term) Blocking peptide - References**

Hartmann, A.M., et al. J. Biol. Chem. 285(31):23994-24002(2010)Kamatani, Y., et al. Nat. Genet. 42(3):210-215(2010)Chen, Y.F., et al. Cancer Res. 69(22):8585-8593(2009)Fujii, T., et al. J. Biol. Chem. 284(1):619-629(2009)Ji, W., et al. Nat. Genet. 40(5):592-599(2008)