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

Specification

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:10913127). 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

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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)