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SLC12A4 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP18058b

Specification

SLC12A4 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q9UP95

SLC12A4 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 6560

Other Names
Solute carrier family 12 member 4, Electroneutral potassium-chloride cotransporter 1, Erythroid K-Cl cotransporter 1, hKCC1, SLC12A4, KCC1

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.

SLC12A4 Antibody (C-term) Blocking Peptide - Protein Information

Name SLC12A4 (HGNC:10913)

Function
Mediates electroneutral potassium-chloride cotransport when activated by cell swelling. May contribute to cell volume homeostasis in single cells (PubMed:10913127, PubMed:34031912). May be involved in the regulation of basolateral Cl(-) exit in NaCl absorbing epithelia (By similarity).

Cellular Location
Cell membrane; Multi-pass membrane protein

Tissue Location
Ubiquitous (PubMed:8663127, PubMed:9516379). Levels are much higher in erythrocytes from patients with Hb SC and Hb SS compared to normal AA erythrocytes (PubMed:9516379). This may contribute to red blood cell dehydration and to the manifestation of sickle cell disease by increasing the intracellular concentration of HbS (PubMed:9516379).

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SLC12A4 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

SLC12A4 Antibody (C-term) Blocking Peptide - Images

SLC12A4 Antibody (C-term) Blocking Peptide - Background

SLC12A4 mediates electroneutral potassium-chloride cotransport when activated by cell swelling. May contribute to cell volume homeostasis in single cells. May be involved in the regulation of basolateral Cl(-) exit in NaCl absorbing epithelia (By similarity). Isoform 4 has no transport activity.

SLC12A4 Antibody (C-term) Blocking Peptide - References

Bailey, S.D., et al. Diabetes Care (2010) In press :Ruano, G., et al. Pharmacogenomics 11(7):959-971(2010)Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)Zhang, S., et al. Eur. J. Gynaecol. Oncol. 30(1):29-34(2009)Zhou, G.P., et al. Blood 103(11):4302-4309(2004)