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SLC12A4 Rabbit pAb

Catalog # AP99592

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9UP95
Other Accession	Q9UP95
Predicted	Rat, Human, Mouse, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	120650
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC12A4
Epitope Specificity	951-1050/1085
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the SLC12A transporter family.
Post-translational modifications	N-glycosylated.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the SLC12A transporter family. The encoded protein mediates the coupled movement of potassium and chloride ions across the plasma membrane. This gene is expressed ubiquitously. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jan 2013]

Additional Information

Gene ID	6560
Other Names	CTC-479C5.17; KCC1; hKCC1; RBCKCC1; S12A4_HUMAN; SLC12A4; Electroneutral potassium-chloride cotransporter 1; Erythroid K-Cl cotransporter 1 (hKCC1); S12A4_MOUSE; Erythroid K-Cl cotransporter 1 (mKCC1); S12A4_RABIT; Erythroid K-Cl cotransporter 1; rbKCC1; S12A4_RAT; Erythroid K-Cl cotransporter 1 (rKCC1); Furosemide-sensitive K-Cl cotransporter; solute carrier family 12 member 4; solute carrier family 12 (potassium/chloride transporter), member 4
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SLC12A4 (HGNC:10913)
Function	Mediates electroneutral potassium-chloride cotransport when activated by cell swelling (PubMed:35759661). 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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.