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Anti-SLC12A6 Antibody

Catalog # ABO11482

Product Information

Application	WB
Primary Accession	Q9UHW9
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Solute carrier family 12 member 6(SLC12A6) detection. Tested with WB in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	9990
Other Names	Solute carrier family 12 member 6, Electroneutral potassium-chloride cotransporter 3, K-Cl cotransporter 3, SLC12A6, KCC3
Calculated MW	127617
Application Details	Western blot, 0.1-0.5 □g/ml, Human, Mouse, Rat
Subcellular Localization	Basolateral cell membrane ; Multi-pass membrane protein .
Tissue Specificity	Highly expressed in heart, brain and kidney. Detected at lower levels in skeletal muscle, placenta, lung and pancreas. Detected in umbilical vein endothelial cells. Isoform 2 is more abundant in kidney. Isoform 5 is testis specific. Expressed in the proximal tubule of the kidney (at protein level). .
Source	Eukaryota
Protein Name	Solute carrier family 12 member 6
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human SLC12A6(1060-1080aa QKAKSMEGFQDLLNMRPDQSN), different from the related mouse and rat sequences by one amino acid.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

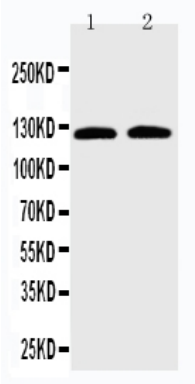
Protein Information

Name	SLC12A6 (HGNC:10914)
Function	[Isoform 1]: Mediates electroneutral potassium-chloride cotransport when activated by cell swelling (PubMed:10600773, PubMed:11551954, PubMed:16048901, PubMed:18566107, PubMed:19665974, PubMed:21628467, PubMed:27485015). May contribute to cell volume homeostasis in single cells (PubMed:16048901, PubMed:27485015).
Cellular Location	Cell membrane; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:Q924N4}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q924N4}
Tissue Location	Expressed in brain (at protein level) (PubMed:21628467). Highly expressed in heart, brain and kidney Detected at lower levels in skeletal muscle, placenta, lung and pancreas (PubMed:10600773). Detected in umbilical vein endothelial cells (PubMed:16048901). [Isoform 5]: Testis specific.

Background

Solute carrier family 12(potassium/chloride transporters), member 6, also called SLC12A6 or KCC3, is a protein that in humans is encoded by the SLC12A6 gene. This gene is a member of the K-Cl cotransporter(KCC) family. K-Cl cotransporters are integral membrane proteins that lower intracellular chloride concentrations below the electrochemical equilibrium potential. By radiation hybrid and somatic cell hybrid analyses, this gene is mapped to 15q14. The proteins encoded by this gene are activated by cell swelling induced by hypotonic conditions. Mutations in this gene are associated with agenesis of the corpus callosum with peripheral neuropathy.

Images



Anti-SLC12A6 antibody, ABO11482, Western blottingLane 1: HELA Cell LysateLane 2: HUT102 Cell Lysate

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