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Anti-NKCC1 Antibody

Catalog # ABO11481

Product Information

Application	WB, IHC-P, IHC-F
Primary Accession	P55011
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Solute carrier family 12 member 2(SLC12A2) detection. Tested with WB, IHC-P, IHC-F in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	6558
Other Names	Solute carrier family 12 member 2, Basolateral Na-K-Cl symporter, Bumetanide-sensitive sodium-(potassium)-chloride cotransporter 1, SLC12A2, NKCC1
Calculated MW	131447
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, Rat, Mouse, By Heat Immunohistochemistry(Frozen Section), 0.5-1 □g/ml, Rat, Human, Mouse Western blot, 0.1-0.5 □g/ml, Human, Mouse, Rat
Subcellular Localization	Membrane; Multi-pass membrane protein.
Tissue Specificity	Expressed in many tissues.
Source	Eukaryota
Protein Name	Solute carrier family 12 member 2
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 N-terminus of human NKCC1(223-241aa RIDHYRHTAAQLGEKLLRP), identical to the related mouse and rat sequences.
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.

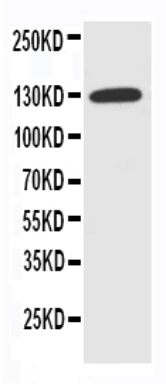
Protein Information

Name	SLC12A2
Function	Cation-chloride cotransporter which mediates the electroneutral transport of chloride, potassium and/or sodium ions across the membrane (PubMed:16669787, PubMed:32081947, PubMed:32294086, PubMed:33597714, PubMed:35585053, PubMed:36239040, PubMed:36306358, PubMed:7629105). Plays a vital role in the regulation of ionic balance and cell volume (PubMed:16669787, PubMed:32081947, PubMed:32294086, PubMed:7629105).
Cellular Location	Basolateral cell membrane; Multi-pass membrane protein
Tissue Location	Expressed in many tissues.

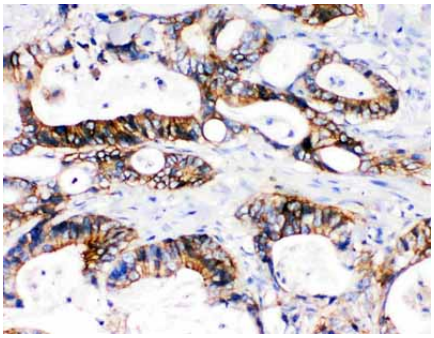
Background

Solute carrier family 12(sodium/potassium/chloride transporters), member 2, also known as NKCC1, is widely distributed throughout the body, especially in organs that secrete fluids, called exocrine glands. By fluorescence in situ hybridization, this gene is mapped to chromosome 5q23.3. The protein encoded by this gene mediates sodium and chloride transport and reabsorption. The encoded protein is a membrane protein and is important in maintaining proper ionic balance and cell volume. This protein is phosphorylated in response to DNA damage. Three transcript variants encoding two different isoforms have been found for this gene.

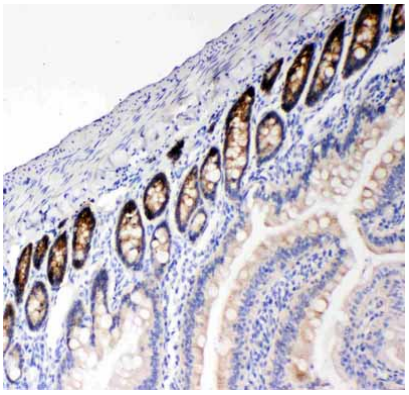
Images



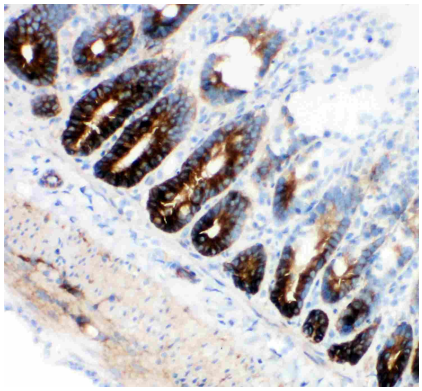
Anti-NKCC1 antibody, ABO11481, Western blottingWB: HELA Cell Lysate at 50??g



Anti-NKCC1 antibody, ABO11481, IHC(P)IHC(P): Human Intestinal Cancer Tissue



Anti-NKCC1 antibody, ABO11481, IHC(P)IHC(P): Rat Intestine Tissue



Anti-NKCC1 antibody, ABO11481, IHC(F)IHC(F): Rat Intestine Tissue

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