

Anti-NKCC1 Antibody
Catalog # ABO11481**Specification**

Anti-NKCC1 Antibody - Product Information

Application	WB, IHC
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.

Anti-NKCC1 Antibody - 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 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat
Immunohistochemistry(Frozen Section), 0.5-1 µg/ml, Rat, Human, Mouse
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

Membrane; Multi-pass membrane protein.

Tissue Specificity

Expressed in many tissues.

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 reconstitution, 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.

Anti-NKCC1 Antibody - 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](http://www.uniprot.org/citations/16669787), PubMed:[32081947](http://www.uniprot.org/citations/32081947), PubMed:[32294086](http://www.uniprot.org/citations/32294086), PubMed:[33597714](http://www.uniprot.org/citations/33597714), PubMed:[35585053](http://www.uniprot.org/citations/35585053), PubMed:[36239040](http://www.uniprot.org/citations/36239040), PubMed:[36306358](http://www.uniprot.org/citations/36306358), PubMed:[7629105](http://www.uniprot.org/citations/7629105)). Plays a vital role in the regulation of ionic balance and cell volume (PubMed:[16669787](http://www.uniprot.org/citations/16669787), PubMed:[32081947](http://www.uniprot.org/citations/32081947), PubMed:[32294086](http://www.uniprot.org/citations/32294086), PubMed:[7629105](http://www.uniprot.org/citations/7629105)).

Cellular Location

Basolateral cell membrane; Multi-pass membrane protein

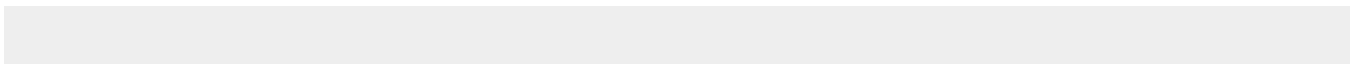
Tissue Location

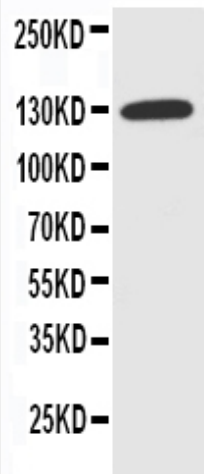
Expressed in many tissues.

Anti-NKCC1 Antibody - Protocols

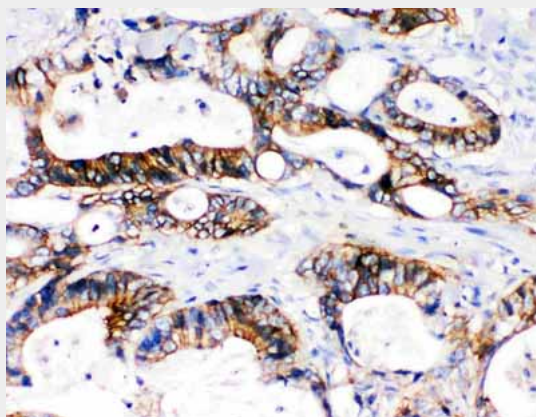
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

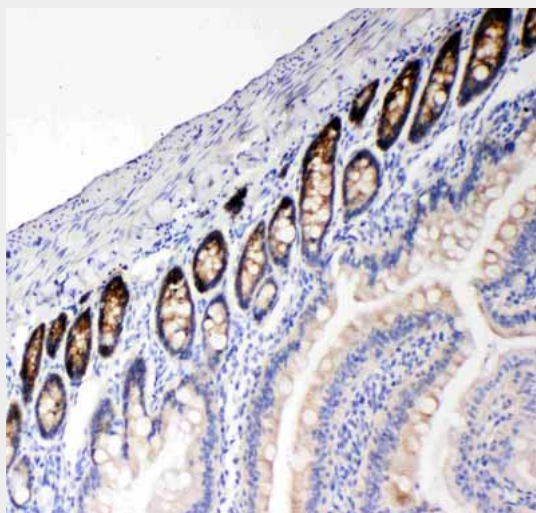
Anti-NKCC1 Antibody - Images



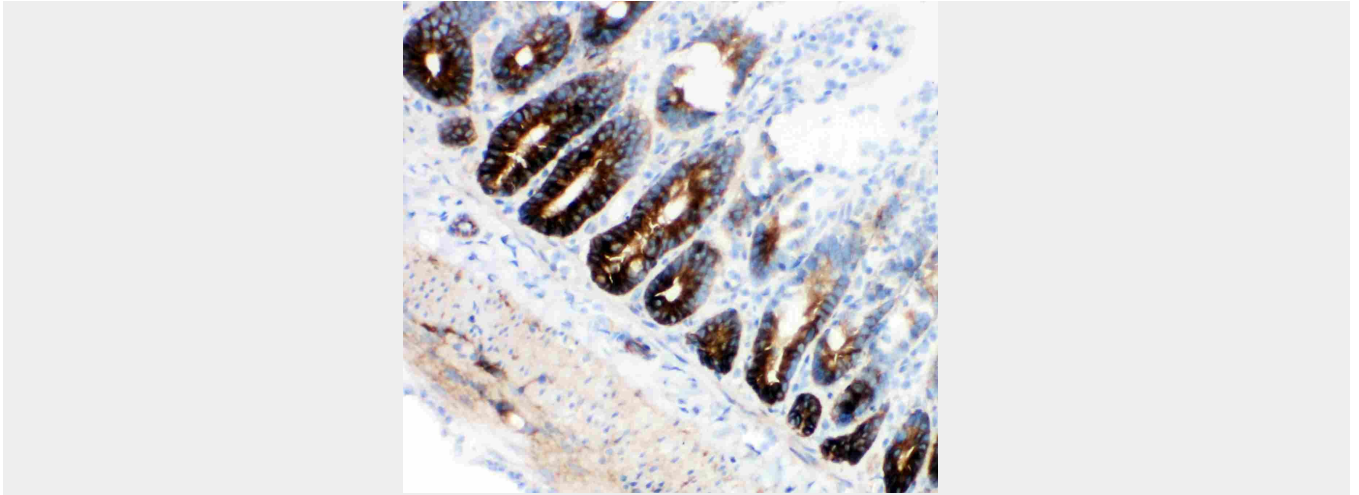
Anti-NKCC1 antibody, ABO11481, Western blottingWB: HELA Cell Lysate at 50??g



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

Anti-NKCC1 Antibody - 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.