# Mouse NKCC1/SLC12A2 Monoclonal Antibody | anti-SLC12A2 antibody

Anti-NKCC1/SLC12A2 Antibody Picoband (monoclonal, 6G7D2)

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA19708** | **Mouse** | **Human, Mouse, Rat** | **Immunofluorescence, Immunohistochemistry, Western Blot** |

## PRODUCT SYNONYMS

NKCC1/SLC12A2; Monoclonal Antibody; Anti-NKCC1/SLC12A2 Antibody Picoband (monoclonal; 6G7D2); anti-SLC12A2 antibody

## PRODUCT SPECIFICATIONS

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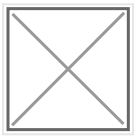
|---|---|
| **Host** | Mouse |
| **Reactivity** | Human, Mouse, Rat |
| **Clonality** | Monoclonal |
| **Isotype** | Mouse IgG2a |
| **Clone Number** | 6G7D2 |
| **Purity/Purification** | Immunogen affinity purified. |
| **Form/Format** | Lyophilized<br>Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4. |
| **Concentration** | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot) |
| **Applicable Applications for anti-SLC12A2 antibody** | IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot) |
| **Application Notes** | WB: 0.25-0.5 ug/ml, Human<br>IHC-P: 2-5 ug/ml, Human, Mouse, Rat<br>IF: 5 ug/ml, Human, Mouse, Rat<br>Tested Species: In-house tested species with positive results.<br>Enhanced Chemiluminescent Kit with anti-Mouse IgG for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit for IHC(P). |
| **Reconstitution** | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |
| **Immunogen** | E Coli-derived human NKCC1/SLC12A2 recombinant protein (Position: K889-K943). |
| **Preparation and Storage** | Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing. |

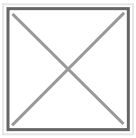
## IMAGES

**IF (Immunofluorescence)**
Figure 7. IF analysis of NKCC1/SLC12A2 using anti-NKCC1/SLC12A2 antibody (AAA19708).NKCC1/SLC12A2 was detected in a paraffin-embedded section of rat colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/mL mouse anti-NKCC1/SLC12A2 Antibody (AAA19708) overnight at 4 degree C. Biotin conjugated goat anti-mouse IgG (BA1001) was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using DyLight550 Conjugated Avidin (BA1134). The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

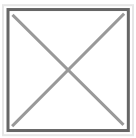
**IF (Immunofluorescence)**
Figure 6. IF analysis of NKCC1/SLC12A2 using anti-NKCC1/SLC12A2 antibody (AAA19708).NKCC1/SLC12A2 was detected in a paraffin-embedded section of mouse colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/mL mouse anti-NKCC1/SLC12A2 Antibody (AAA19708) overnight at 4 degree C. Biotin conjugated goat anti-mouse IgG (BA1001) was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using DyLight550 Conjugated Avidin (BA1134). The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



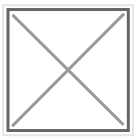
**IF (Immunofluorescence)**
Figure 5. IF analysis of NKCC1/SLC12A2 using anti-NKCC1/SLC12A2 antibody (AAA19708).NKCC1/SLC12A2 was detected in a paraffin-embedded section of human colorectal adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/mL mouse anti-NKCC1/SLC12A2 Antibody (AAA19708) overnight at 4 degree C. Biotin conjugated goat anti-mouse IgG (BA1001) was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using DyLight550 Conjugated Avidin (BA1134). The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



**IHC (Immunohistochemistry)**
Figure 4. IHC analysis of NKCC1/SLC12A2 using anti-NKCC1/SLC12A2 antibody (AAA19708).NKCC1/SLC12A2 was detected in a paraffin-embedded section of rat colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-NKCC1/SLC12A2 Antibody (AAA19708) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



**IHC (Immunohistochemistry)**
Figure 3. IHC analysis of NKCC1/SLC12A2 using anti-NKCC1/SLC12A2 antibody (AAA19708).NKCC1/SLC12A2 was detected in a paraffin-embedded section of mouse colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-NKCC1/SLC12A2 Antibody (AAA19708) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



**IHC (Immunohistochemistry)**
Figure 2. IHC analysis of NKCC1/SLC12A2 using anti-NKCC1/SLC12A2 antibody (AAA19708).NKCC1/SLC12A2 was detected in a paraffin-embedded section of human colorectal adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-NKCC1/SLC12A2 Antibody (AAA19708) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.

## ADDITIONAL INFORMATION

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| **Related Product Information for anti-SLC12A2 antibody** | 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. |
| **Product Categories/Family for anti-SLC12A2 antibody** | Primary Antibodies, Mouse Monoclonal Antibodies |

## NCBI AND UNIPROT INFORMATION

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|---|---|
| **NCBI GI #** | 1709292 |

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|---|---|
| **NCBI GeneID** | 6558 |
| **UniProt Accession #** | P55011; Q8N713; Q8WWH7 |
| **Molecular Weight** | 1212 |
| **NCBI Official Full Name** | Solute carrier family 12 member 2 |
| **NCBI Official Synonym Full Names** | solute carrier family 12 (sodium/potassium/chloride transporter), member 2 |
| **NCBI Official Symbol** | SLC12A2 |
| **NCBI Official Synonym Symbols** | BSC; BSC2; NKCC1; PPP1R141 |
| **NCBI Protein Information** | solute carrier family 12 member 2; basolateral Na-K-Cl symporter; protein phosphatase 1, regulatory subunit 141; bumetanide-sensitive sodium-(potassium)-chloride cotransporter 1; solute carrier family 12 (sodium/potassium/chloride transporters), member 2 |
| **UniProt Protein Name** | Solute carrier family 12 member 2 |
| **UniProt Gene Name** | **SLC12A2** |
| **UniProt Synonym Gene Names** | NKCC1 |
| **UniProt Entry Name** | S12A2_HUMAN |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/nkcc1-slc12a2-antibody-clone-6g7d2-immunofluorescence-immunohistochemistry-western-blot-elisa/19708