

Goat SLC12A2 / NKCC1 Polyclonal Antibody | anti-SLC12A2 antibody

Goat Polyclonal to Human SLC12A2 / NKCC1

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA52312	Goat	Human, Bovine, Dog, Horse, Pig, Chicken	ELISA, Immunofluorescence, Immunohistochemistry, Immunohistochemistry

PRODUCT SYNONYMS

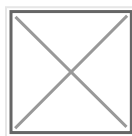
SLC12A2 / NKCC1; Polyclonal Antibody; Goat Polyclonal to Human SLC12A2 / NKCC1; Anti-SLC12A2 / NKCC1 Antibody (Internal) IHC-plus; SLC12A2; Basolateral Na-K-Cl symporter; BSC2; MBSC2; NKCC1; Sy-ns; BSC; Human SLC12A2; anti-SLC12A2 antibody

PRODUCT SPECIFICATIONS

Host	Goat
Reactivity	Human, Bovine, Dog, Horse, Pig, Chicken
Clonality	Polyclonal
Specificity	Human SLC12A2 / NKCC1.
Purity/Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Form/Format	TBS, pH 7.3, 0.02% Sodium Azide, 0.5% BSA
Concentration	0.5mg/ml (varies by lot)
Applicable Applications for anti-SLC12A2 antibody	ELISA (Peptide ELISA), IF (Immunofluorescence), IHC (Immunohistochemistry), IHC (Immunohistochemistry)
Target	SLC12A2/NKCC1
Family	Transporter/Cation:Chloride symporter
Immunogen Species	SLC12A2/NKCC1 antibody was raised against Human
Immunogen	SLC12A2/NKCC1 antibody was raised against peptide with sequence C-NALQHSIRLSGVEDH, from the internal region of the protein sequence according to NP_001037.1 NP_001243390.1.
Epitope	aa769-783
Usage	Peptide ELISA: antibody detection limit dilution 1:64000. Western blot: Preliminary experiments gave an approx 75kDa band in Human, Mouse and Rat Skeletal Muscle, Heart and Brain lysates after 1 ug/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the band we observe given the calculated size of 131kDa according to NP_001037.1. The 75kDa band was successfully blocked by incubation with the immunizing peptide.
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

Recommended Immunohistochemistry Protocol	The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results: Tissue Preparation: Formalin fixation and embedding in paraffin wax. Tissue Sectioning: Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-drying oven for 45 minutes at 60°C. Deparaffinization: Wash dry slides in 3 changes of xylene - 5 minutes each @ RT Rehydration: Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes Remove from heat and let stand at room temperature in buffer - 20 minutes Rinse in 1X TBS with Tween (TBST) -1 minute @ RT Immunostaining: (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1 X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip
Preparation and Storage	Aliquot and store at -20°C. Avoid freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Anti-SLC12A2 / NKCC1 antibody IHC of human colon, epithelium. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 3.75 ug/ml.

ADDITIONAL INFORMATION

Product Categories/Family for anti-SLC12A2 antibody	Family: Transporter ; Subfamily: Cation:chloride symporter
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4506975
NCBI GeneID	6558
NCBI Accession #	NP_001037.1
NCBI GenBank Nucleotide #	NM_001046.2
UniProt Accession #	P55011; Q8N713; Q8WWH7
NCBI Official Full Name	solute carrier family 12 member 2 isoform 1
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/polyclonal/slc12a2-nkcc1-antibody-peptide-elisa-immunofluorescence-immunohistochemistry-immunohistochemistry-elisa/52312>