

## Human NKCC1 (Na-K-Cl Cotransporter 1) ELISA Kit | NKCC1 elisa kit

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CATALOG #  
AAA277722

REACTIVITY  
Human

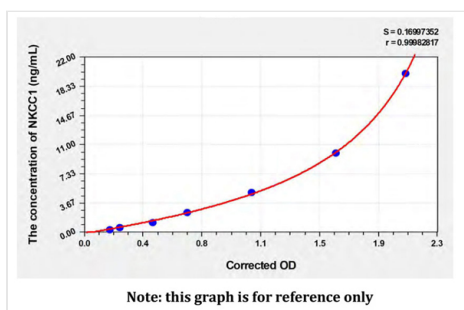
### PRODUCT SYNONYMS

NKCC1 (Na-K-Cl Cotransporter 1); Human NKCC1 (Na-K-Cl Cotransporter 1) ELISA Kit; BSC; BSC2; KILQS; NKCC1; PPP1R141; SLC12A2; NKCC1 elisa kit

### PRODUCT SPECIFICATIONS

|                       |                                                                                                                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity            | Human                                                                                                                                                                                   |
| Specificity           | This assay has high sensitivity and excellent specificity for detection of Human NKCC1. No significant cross-reactivity or interference between Human NKCC1 and analogues was observed. |
| Assay Type            | Sandwich                                                                                                                                                                                |
| Detection Range       | 0.32-20 ng/mL                                                                                                                                                                           |
| Sensitivity           | 0.16 ng/mL                                                                                                                                                                              |
| Intra-assay Precision | Intra-assay Precision (Precision within an assay)? CV% < 8%. Three samples of known concentration were tested twenty times on 1 plate to assess intra-assay precision.                  |
| Inter-assay Precision | Inter-assay Precision (precision between assays)? CV% < 10%. Three samples of known concentration were tested in forty separate assays to assess inter-assay precision.                 |

### IMAGES



Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for NKCC1 elisa kit

**Principle of the Assay:** The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Human NKCC1. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Human NKCC1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Human NKCC1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm  $\pm$  10nm. The concentration of Human NKCC1 in the samples is then determined by comparing the OD of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 1709292                                                                                                                                                                                                                                                        |
| 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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/nkcc1-na-k-cl-cotransporter-1/277722>