

Human Solute Carrier Family 12 Member 1 (SLC12A1) ELISA Kit | SLC12A1 elisa kit

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CATALOG #
AAA330840

REACTIVITY
Human

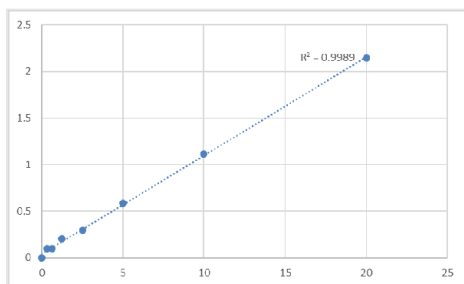
PRODUCT SYNONYMS

Solute Carrier Family 12 Member 1 (SLC12A1); Human Solute Carrier Family 12 Member 1 (SLC12A1) ELISA Kit; SLC12A1; BSC1; MGC48843; NKCC2; NKCC2A variant A; Na-K-2Cl cotransporter; sodium potassium chloride cotransporter 2; SLC12A1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Solute carrier family 12 member 1 (SLC12A1) ELISA Kit has high sensitivity and excellent specificity for detection of Human SLC12A1. No significant cross-reactivity or interference between Human SLC12A1 and analogues was observed.
Sequence Length	1099
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Solute carrier family 12 member 1 (SLC12A1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for SLC12A1 elisa kit	Description: This Human Solute carrier family 12 member 1 (SLC12A1) ELISA Kit employs a two-site sandwich ELISA to quantitate SLC12A1 in samples. An antibody specific for SLC12A1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SLC12A1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC12A1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SLC12A1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: The Na-K-Cl cotransporters are a family of integral membrane proteins that mediate the coupled transport of Na⁺, K⁺, and Cl⁻ across the plasma membrane.NKCC2 protein is encoded in 26 exons, and the coding region spans 80 kb of genomic DNA with introns that range in length from 120 bp to 15 kb. The location of intron/exon boundaries are very similar to those seen in SLC10A3 through exon 19. Three alternative forms of exon 4 are encoded in genomic DNA, as reported in other species.The gene, symbolized SLC12A1 in human and mouse, is structurally related to another Na-K-Cl cotransporter (SLC12A2; previously called NKCC1) which, unlike the kidney-specific SLC12A1, is expressed in many tissues, including the basolateral membrane of secretory epithelia, where it mediates active chloride secretion.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	212276464
NCBI GeneID	6557
UniProt Accession #	Q13621
NCBI Official Full Name	Solute carrier family 12 member 1
NCBI Official Synonym Full Names	solute carrier family 12 member 1
NCBI Official Symbol	SLC12A1
NCBI Official Synonym Symbols	BSC1; NKCC2
NCBI Protein Information	solute carrier family 12 member 1
UniProt Protein Name	Solute carrier family 12 member 1
UniProt Gene Name	SLC12A1
UniProt Synonym Gene Names	NKCC2
UniProt Entry Name	S12A1_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/human-elisa-kits/solute-carrier-family-12-member-1-slc12a1/330840>