

Human Sodium/Glucose Cotransporter 2 (SLC5A2) ELISA Kit | SLC5A2 elisa kit

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CATALOG #
AAA330808

REACTIVITY
Human

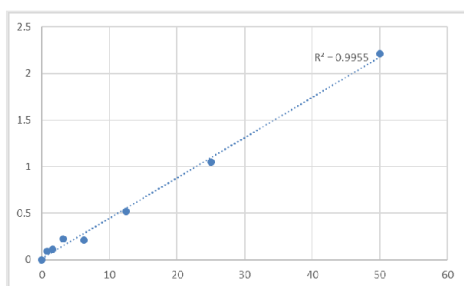
PRODUCT SYNONYMS

Sodium/Glucose Cotransporter 2 (SLC5A2); Human Sodium/Glucose Cotransporter 2 (SLC5A2) ELISA Kit; SLC5A2; SGLT2; Na(+)/glucose cotransporter 2; low affinity sodium-glucose cotransporter; solute carrier family 5 (sodium/glucose transporter); member 2; SLC5A2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Sodium/glucose cotransporter 2 (SLC5A2) ELISA Kit has high sensitivity and excellent specificity for detection of Human SLC5A2. No significant cross-reactivity or interference between Human SLC5A2 and analogues was observed.
Sequence Length	672
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 Sodium/glucose cotransporter 2 (SLC5A2) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for SLC5A2 elisa kit	Description: This Human Sodium/glucose cotransporter 2 (SLC5A2) ELISA Kit employs a two-site sandwich ELISA to quantitate SLC5A2 in samples. An antibody specific for SLC5A2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SLC5A2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC5A2 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 SLC5A2 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: The major reabsorptive mechanism for D-glucose in the kidney is known to involve a lower affinity, high capacity Na(+)/glucose cotransporter, which is located in the early proximal convoluted tubule segment S1 and has a Na(+)-to-glucose coupling ratio of 1:1. Uptake experiments using cRNA-injected Xenopus oocytes showed specific uptake of glucose and alpha-methyl glucopyranoside at up to three times background. This uptake was saturable, suggesting that the cDNA corresponds to a low-affinity kidney sodium-glucose transporter. It was therefore referred to as sodium-glucose cotransporter 2, or SGLT2. SGLT2 mediates saturable Na(+)-dependent and phlorizin-sensitive transport with K(m) values consistent with low affinity Na(+)/glucose cotransport.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4507033
NCBI GeneID	6524
NCBI Accession #	NP_003032.1
NCBI GenBank Nucleotide #	NP_003032.1
UniProt Accession #	P31639
NCBI Official Full Name	sodium/glucose cotransporter 2
NCBI Official Synonym Full Names	solute carrier family 5 member 2
NCBI Official Symbol	SLC5A2
NCBI Official Synonym Symbols	SGLT2
NCBI Protein Information	sodium/glucose cotransporter 2
UniProt Protein Name	Sodium/glucose cotransporter 2
UniProt Gene Name	SLC5A2
UniProt Synonym Gene Names	SGLT2; Na(+)/glucose cotransporter 2
UniProt Entry Name	SC5A2_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
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/sodium-glucose-cotransporter-2-slc5a2/330808>