

Rat Sodium/Glucose Cotransporter 1 ELISA Kit | SGLT1 elisa kit

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CATALOG #
AAA87692

REACTIVITY
Rat

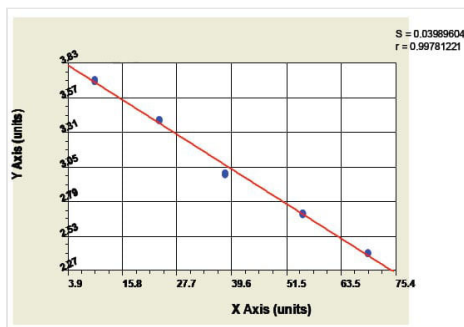
PRODUCT SYNONYMS

Sodium/Glucose Cotransporter 1; Rat Sodium/Glucose Cotransporter 1 ELISA Kit; SGLT1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	50-1000ng/mL
Sensitivity	1.0ng/ml
Intended Uses	This SGLT1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat SGLT1. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SGLT1 elisa kit

Principle of the Assay: SGLT1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-SGLT1 antibody and an SGLT1-HRP conjugate. The assay sample and buffer are incubated together with SGLT1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the SGLT1 concentration since SGLT1 from samples and SGLT1-HRP conjugate compete for the anti-SGLT1 antibody binding site. Since the number of sites is limited, as more sites are occupied by SGLT1 from the sample, fewer sites are left to bind SGLT1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The SGLT1 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	261824023
NCBI GeneID	20537
NCBI Accession #	NP_062784.3
NCBI GenBank Nucleotide #	NM_019810.4
Molecular Weight	73,449 Da
NCBI Official Full Name	sodium/glucose cotransporter 1
NCBI Official Synonym Full Names	solute carrier family 5 (sodium/glucose cotransporter), member 1
NCBI Official Symbol	Slc5a1
NCBI Official Synonym Symbols	Sglt1
NCBI Protein Information	sodium/glucose cotransporter 1; Na(+)/glucose cotransporter 1; sodium glucose cotransporter 1; sodium-glucose cotransporter 1; solute carrier family 5 member 1; solute carrier family 5, member 1; solute carrier family 5, member alpha 1; high affinity sodium-glucose cotransporter
UniProt Protein Name	Sodium/glucose cotransporter 1
UniProt Gene Name	Slc5a1
UniProt Synonym Gene Names	Na(+)/glucose cotransporter 1
UniProt Entry Name	SC5A1_MOUSE

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/sglt1-rat-elisa-kits/sodium-glucose-cotransporter-1/87692>