

Human Sodium/Glucose Cotransporter 2 (SGLT2) ELISA Kit | SGLT2 elisa kit

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CATALOG #
AAA20671

REACTIVITY
Human

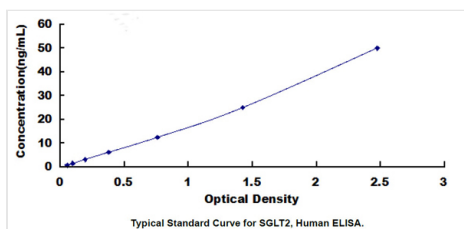
PRODUCT SYNONYMS

Sodium/Glucose Cotransporter 2 (SGLT2); Human Sodium/Glucose Cotransporter 2 (SGLT2) ELISA Kit; SLC5A2; Solute Carrier Family 5 Member 2; Low affinity sodium-glucose cotransporter; Na(+)/glucose cotransporter 2; SGLT2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of SGLT2. No significant cross-reactivity or interference between SGLT2 and analogues was observed.
Sequence Length	458
Assay Type	Quantitative Sandwich
Samples	Human tissue homogenates, cell lysates and other biological fluids
Detection Range	0.78-50ng/mL
Sensitivity	< 0.30ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level SGLT2 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level SGLT2 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SGLT2 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to SGLT2. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to SGLT2. 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 SGLT2, 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 ± 10nm. The concentration of SGLT2 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of SGLT2 in human tissue homogenates, cell lysates and other biological fluids.
Product Categories/Family for SGLT2 elisa kit	Metabolic pathway
References	SGLT2 breast expression could affect the cardiovascular performance in pre-menopausal women with fatty vs. non fatty breast via over-inflammation and sirtuins" down regulation; Eur J Intern Med; 2023 Apr 14;S0953-6205(23)00124-3.; PMID: 37062642; Celestino Sardu; Department of Advanced Medical and Surgical Sciences, University of Campania "Luigi Vanvitelli", Piazza Miraglia, 2, Naples 80138, Italy;

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507033
NCBI GeneID	6524
NCBI Accession #	NP_003032.1
NCBI GenBank Nucleotide #	NM_003041.3
UniProt Accession #	P31639; A2RRD2
Molecular Weight	49,357 Da
NCBI Official Full Name	sodium/glucose cotransporter 2
NCBI Official Synonym Full Names	solute carrier family 5 (sodium/glucose cotransporter), 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.