

Rat Glucose Transporter 4 (GLUT4) ELISA Kit | GLUT4 elisa kit

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CATALOG #
AAA139349

REACTIVITY
Rat

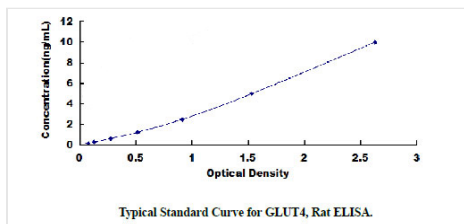
PRODUCT SYNONYMS

Glucose Transporter 4 (GLUT4); Rat Glucose Transporter 4 (GLUT4) ELISA Kit; SLC2A4; Solute carrier family 2; facilitated glucose transporter member 4; Glucose transporter type 4; insulin-responsive; GLUT4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of GLUT4. No significant cross-reactivity or interference between GLUT4 and analogues was observed.
Sequence Length	174
Assay Type	Double-antibody Sandwich
Samples	Tissue Homogenates, Cell Lysates, Cell Culture Supernates And Other Biological Fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.063ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level GLUT4 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 GLUT4 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 GLUT4 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of GLUT4 in rat tissue homogenates, cell lysates, cell culture supernates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to GLUT4. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to GLUT4. 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 GLUT4, 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 GLUT4 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for GLUT4 elisa kit	Signal transduction; Metabolic pathway; Endocrinology; Cardiovascular biology
References	Tropisetron modulates peripheral and central serotonin/insulin levels via insulin and nuclear factor kappa B/receptor for advanced glycation end products signalling to regulate type-2 diabetes in rats; RSC Adv; 2018 Mar 27;8(22):11908-11920.; PMID: 35539384; Reem Ali Mohamed; Department of Pharmacology and Toxicology, Faculty of Pharmacy, October University for Modern Sciences and Arts (MSA) 26 July Mehwar Road Intersection with Wahat Road 6th October City Cairo 12566 Egypt ralia@msa.eun.eg +20-002-01224611087.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4261780
NCBI GeneID	396754
UniProt Accession #	Q9XT10
Molecular Weight	18,208 Da
NCBI Official Full Name	glucose transporter 4, partial
NCBI Official Symbol	SLC2A4
NCBI Official Synonym Symbols	GLUT4
NCBI Protein Information	solute carrier family 2, facilitated glucose transporter member 4
UniProt Protein Name	Solute carrier family 2, facilitated glucose transporter member 4
UniProt Gene Name	SLC2A4
UniProt Synonym Gene Names	GLUT4; GLUT-4
UniProt Entry Name	GTR4_PIG

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.