

Rat Glucose Transporter 1 (GLUT1) ELISA Kit | GLUT1 elisa kit

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CATALOG #
AAA138644

REACTIVITY
Rat

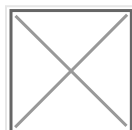
PRODUCT SYNONYMS

Glucose Transporter 1 (GLUT1); Rat Glucose Transporter 1 (GLUT1) ELISA Kit; SLC2A1; SLC2-A1; GLUT; Solute Carrier Family 2 Member 1; Facilitated Glucose Transporter; Glucose transporter type 1; erythrocyte/brain; HepG2 glucose transporter; GLUT1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Glucose Transporter 1 (GLUT1). No significant cross-reactivity or interference between Glucose Transporter 1 (GLUT1) and analogues was observed.
Sequence Length	149
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	1.25-80ng/mL
Sensitivity	0.51ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Glucose Transporter 1 (GLUT1) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Glucose Transporter 1 (GLUT1) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
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 GLUT1 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Glucose Transporter 1 (GLUT1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Glucose Transporter 1 (GLUT1). 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 Glucose Transporter 1 (GLUT1), 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 Glucose Transporter 1 (GLUT1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for GLUT1 elisa kit	Signal transduction; Metabolic pathway; Endocrinology

NCBI AND UNIPROT INFORMATION

NCBI GI #	440215105
NCBI GeneID	38109
Molecular Weight	16,880 Da
NCBI Official Full Name	glucose transporter 1, isoform X
NCBI Official Synonym Full Names	Glucose transporter 1
NCBI Official Symbol	Glut1
NCBI Official Synonym Symbols	0074/12; CG1086; CG13908; CG43946; DmelCG43946; Dmglut1; DmGluT1; DmGLUT1; Glt1; GLU; glut1; I(3)61Ea; I(3)L1H; I(3)S007412
NCBI Protein Information	CG43946 gene product from transcript CG43946-RR
UniProt Protein Name	Glucose transporter type 1
UniProt Gene Name	Glut1
UniProt Entry Name	GTR1_DROME

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.