

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

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CATALOG #
AAA64592

REACTIVITY
Rat

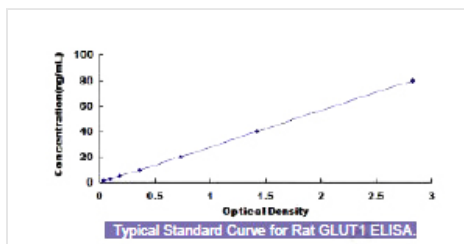
PRODUCT SYNONYMS

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 GLUT1. No significant cross-reactivity or interference between GLUT1 and analogues was observed.
Sequence Length	492
Samples	Tissue homogenates and other biological fluids.
Assay Type	Sandwich
Detection Range	1.25-80ng/mL
Sensitivity	0.49ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level GLUT1 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 GLUT1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GLUT1 elisa kit	Intended Uses: This kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of GLUT1 in rat tissue homogenates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to GLUT1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to 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 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 GLUT1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	20301952
NCBI GeneID	24778
NCBI Accession #	NP_620182.1
NCBI GenBank Nucleotide #	NM_138827.1
UniProt Accession #	P11167
Molecular Weight	53,963 Da
NCBI Official Full Name	solute carrier family 2, facilitated glucose transporter member 1
NCBI Official Synonym Full Names	solute carrier family 2 member 1
NCBI Official Symbol	Slc2a1
NCBI Official Synonym Symbols	GTG1; Gtg3; GLUTB; Glut1; RATGTG1
NCBI Protein Information	solute carrier family 2, facilitated glucose transporter member 1
UniProt Protein Name	Solute carrier family 2, facilitated glucose transporter member 1
UniProt Gene Name	Slc2a1
UniProt Synonym Gene Names	Glut-1; Glut1; GLUT-1

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.