

Rat Glucose Transporter 4 ELISA Kit | GLUT4 elisa kit

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CATALOG #
AAA17681

REACTIVITY
Rat

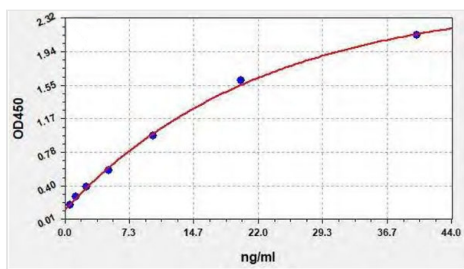
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Specifically recognize GLUT4, no obvious cross reaction with other analogues
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	0.625-40ng/ml
Sensitivity	0.375ng/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GLUT4 elisa kit	Background: Glut4 (Glucose Transporter Member 4), also known as SLC2A4, is a 509 aa multi-pass type membrane protein. It is an insulin-regulated glucose transporter. Glut4 is most highly expressed in adipose and striated muscle tissues, but has also been reported in multiple other tissues including the nervous system and breast cancer. Insulin stimulated transport of Glut4 has been shown to be impaired in type 2 diabetes patients. Additionally, inhibition of Glut4 may be useful in reducing proliferation of breast cancer cells. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti GLUT4 antibody was pre-coated onto the 96-well plate. The biotin conjugated anti GLUT4 antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with GLUT4 conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of GLUT4 in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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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/glut4-rat-elisa-kits/glucose-transporter-4/17681>