

## Human GLUT1 ELISA Kit | GLUT1 elisa kit

Human GLUT1 (Glucose Transporter 1) ELISA Kit

CATALOG #  
**AAA164183**

REACTIVITY  
**Human**

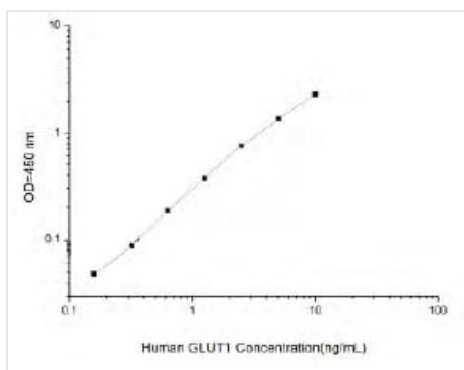
### PRODUCT SYNONYMS

GLUT1; Human GLUT1 (Glucose Transporter 1) ELISA Kit; GLUT1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                      |
| Specificity             | This kit recognizes Human GLUT1 in samples. No significant cross-reactivity or interference between Human GLUT1 and analogues was observed.                                |
| Sequence Length         | 130                                                                                                                                                                        |
| Samples                 | Serum, plasma and other biological fluids                                                                                                                                  |
| Assay Type              | Quantitative Sandwich                                                                                                                                                      |
| Detection Range         | 0.16-10ng/mL                                                                                                                                                               |
| Sensitivity             | 0.1ng/mL                                                                                                                                                                   |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, mid range and high level Human GLUT1 were tested 20 times on one plate, respectively.               |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): 3 samples with low, mid range and high level Human GLUT1 were tested on 3 different plates, 20 replicates in each plate. |
| Preparation and Storage | Store at 4 degree C.                                                                                                                                                       |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for GLUT1 elisa kit | <p>Intended Uses: This ELISA kit applies to the in vitro quantitative determination of Human GLUT1 concentrations in serum, plasma and other biological fluids.</p> <p>Principle of the Assay: This ELISA kit uses the Sandwich-ELISA principle. The micro ELISA plate provided in this kit has been pre-coated with an antibody specific to Human GLUT1. Standards or samples are added to the micro ELISA plate wells and combined with the specific antibody. Then a biotinylated detection antibody specific for Human GLUT1 and Avidin- Horseradish Peroxidase (HRP) conjugate are added successively to each micro plate well and incubated. Free components are washed away. The substrate solution is added to each well. Only those wells that contain Human GLUT1, biotinylated detection antibody and Avidin-HRP conjugate will appear blue in color. The enzyme-substrate reaction is terminated by the addition of stop solution and the color turns yellow. The optical density (OD) is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The OD value is proportional to the concentration of Human GLUT1. You can calculate the concentration of Human GLUT1 in the samples by comparing the OD of the samples to the standard curve.</p> |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                              |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 14268550                                                                                                                                                                                                                     |
| NCBI GeneID                      | 6513                                                                                                                                                                                                                         |
| UniProt Accession #              | P11166; O75535; Q147X2; A8K9S6; B2R620; D3DPX0                                                                                                                                                                               |
| Molecular Weight                 | 54,084 Da                                                                                                                                                                                                                    |
| NCBI Official Full Name          | glucose transporter-like protein I, partial                                                                                                                                                                                  |
| NCBI Official Synonym Full Names | solute carrier family 2 (facilitated glucose transporter), member 1                                                                                                                                                          |
| NCBI Official Symbol             | SLC2A1                                                                                                                                                                                                                       |
| NCBI Official Synonym Symbols    | PED; DYT9; GLUT; DYT17; DYT18; EIG12; GLUT1; HTLVR; GLUT-1; GLUT1DS                                                                                                                                                          |
| NCBI Protein Information         | solute carrier family 2, facilitated glucose transporter member 1; glucose transporter type 1, erythrocyte/brain; hepG2 glucose transporter; human T-cell leukemia virus (I and II) receptor; receptor for HTLV-1 and HTLV-2 |
| UniProt Protein Name             | Solute carrier family 2, facilitated glucose transporter member 1                                                                                                                                                            |
| UniProt Gene Name                | SLC2A1                                                                                                                                                                                                                       |
| UniProt Synonym Gene Names       | GLUT1; GLUT-1                                                                                                                                                                                                                |
| UniProt Entry Name               | GTR1_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/glut1/164183>