# antibodies

# Datasheet for ABIN6959577 **GLUT4 ELISA Kit**

Image

Publication



### Overview

Quantity:	96 tests
Target:	GLUT4 (SLC2A4)
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	0.15 ng/mL - 10 ng/mL
Minimum Detection Limit:	0.15 ng/mL
Application:	ELISA
Product Details	
Purpose:	The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of GLUT4 in
	mouse tissue homogenates, cell lysates, cell culture supernates.
Sample Type:	Cell Culture Supernatant, Cell Lysate, Tissue Homogenate
Sample Type: Analytical Method:	Cell Culture Supernatant, Cell Lysate, Tissue Homogenate Quantitative
Analytical Method:	Quantitative
Analytical Method: Detection Method:	Quantitative Colorimetric
Analytical Method: Detection Method:	Quantitative         Colorimetric         This assay has high sensitivity and excellent specificity for detection of Glucose Transporter 4

· Plate sealer for 96 wells

• Reference Standard

Standard Diluent

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- Detection Reagent A
- Detection Reagent B
- Assay Diluent A
- Assay Diluent B
- Reagent Diluent (if Detection Reagent is lyophilized)
- TMB Substrate
- Stop Solution
- Wash Buffer (30 x concentrate)
- Instruction manual

# Target Details

Target:	GLUT4 (SLC2A4)
Alternative Name:	Glucose Transporter 4 (GLUT4) (SLC2A4 Products)
Pathways:	AMPK Signaling, Carbohydrate Homeostasis, Proton Transport, Brown Fat Cell Differentiation, Warburg Effect

# Application Details

Comment:	Information on standard material:
	The standard might be recombinant protein or natural protein, that will depend on the specific
	kit. Moreover, the expression system is E.coli or yeast or mammal cell. There is 0.05% proclin
	300 in the standard as preservative.
	Information on reagents:
	The stop solution used in the kit is sulfuric acid with concentration of 1 mol/L. And the wash
	solution is TBS. The standard diluent contains 0.02 % sodium azide, assay diluent A and assay
	diluent B contain 0.01% sodium azide. Some kits can contain is BSA in them.
	Information on antibodies:
	The provided antibodies and their host vary in different kits.
Sample Volume:	100 μL
Assay Time:	3 h
Plate:	Pre-coated
Protocol:	1. Prepare all reagents, samples and standards,
	2. Add 100 $\mu L$ standard or sample to each well. Incubate 1 hours at 37 °C,

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37 °C,
: 37 °C,

therefore be stored for a short periodat 2 - 8 °C or aliquoted at -20 °C (≤1 month) or -80 °C (≤

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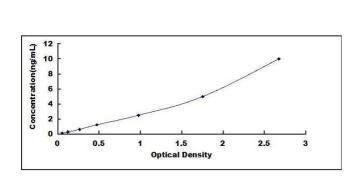
	<ul> <li>3 months). Repeated freeze-thawcycles should be avoided. Prior to assay, the frozen samples should be slowly thawed and centrifuged toremove precipitates.</li> <li>If the sample type is not specified in the instructions, a preliminary test is necessary to determinecompatibility with the kit.</li> <li>If a lysis buffer is used to prepare tissue homogenates or cell culture supernatant, there is a possibility of causing a deviation due to the introduced chemical substance. The recommended dilution factor is for reference only.</li> <li>Please estimate the concentration of the samples before performing the test. If the values are not in therange of the standard curve, the optimal sample dilution for the particular experiment has to be determined. Samples should then be diluted with PBS (pH =7.0-7.2).</li> </ul>
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level of
	target were tested 20 times on one plate, respectively.
	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level of
	target were tested on 3 different plates, 8 replicates in each plate.
	CV(%) = SD/meanX100
	Intra-Assay: CV < 10%
	Inter-Assay: CV < 12%
Restrictions:	For Research Use only
Handling	
Precaution of Use:	The Stop Solution suggested for use with this kit is an acid solution. Wear eye, hand, face, and
	clothing protection when using this material.
Storage:	4 °C/-20 °C
Storage Comment:	<ol> <li>For unopened kit: All reagents should be stored according to the labels on the vials. The Standard, Detection Reagent A, Detection Reagent B, and 96-well Strip Plate should be stored at -20 °C upon receipt, while the other reagents should be stored at 4 °C.</li> <li>For opened kits: the remaining reagents must be stored according to the above storage conditions. In addition, please return the unused wells to the foil pouch containing the desiccant and seal the foil pouch with the zipper.</li> </ol>
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Storage Comment: Expiry Date: Publications	<ol> <li>For unopened kit: All reagents should be stored according to the labels on the vials. The Standard, Detection Reagent A, Detection Reagent B, and 96-well Strip Plate should be stored at -20 °C upon receipt, while the other reagents should be stored at 4 °C.</li> <li>For opened kits: the remaining reagents must be stored according to the above storage conditions. In addition, please return the unused wells to the foil pouch containing the desiccant and seal the foil pouch with the zipper.</li> </ol>
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Inagaki, Nishizawa, Ota, Suzuki, Inuzuka, Miyamura, Sekiya, Kurahashi, Udagawa: "Upregulation of HtrA4 in the placentas of patients with severe pre-eclampsia." in: **Placenta**, Vol. 33, Issue 11, pp. 919-26, (2012) (PubMed).

## Images



### ELISA

**Image 1.** Typical standard curve