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Datasheet for ABIN6959578 GLUT4 ELISA Kit

1 Image

1 Publication



Overview

Quantity:	96 tests
Target:	GLUT4 (SLC2A4)
Reactivity:	Rat
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
	rat tiesue homogenates, cell lusates, cell culture supernates

	rat tissue homogenates, cell lysates, cell culture supernates.
Sample Type:	Cell Culture Supernatant, Cell Lysate, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of Glucose Transporter 4 (GLUT4)
Sensitivity:	0.063 ng/mL
Components:	 Pre-coated, ready to use 96-well strip plate, flat buttom 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 μL standard or sample to each well. Incubate 1 hours at 37 °C,

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Sample Preparation:	• It is recommended to use fresh samples without long storage, otherwise protein degradation and denaturationmay occur in these samples, leading to false results. Samples should
	6. Contaminated water or container for reagent preparation will influence the detection result.
	If crystals have formed in the Wash Solution concentrate (30x), warm to room temperature and mix gently until the crystals are completely dissolved.
	once.
	4. The reconstituted Standards, Detection Reagent A and Detection Reagent B can be used only
	To minimize imprecision caused by pipetting, use small volumes and ensure that pipettors are calibrated. It is recommended to suck more than 10µL for one pipetting.
	the instruction, and avoid foaming and mix gently until the crystals are completely dissolved.
	3. Please carefully reconstitute Standards or working Detection Reagent A and B according to
	37 °C directly.
	 Making serial dilution in the wells directly is not permitted. Prepare standards within 15 minutes before assay. Please do not dissolve the reagents at
	Note:
	TMB substrate - Aspirate the needed dosage of the solution with sterilized tips and do not dump the residual solution into the vial again.
	or distilled water to prepare 600 mL of Wash Solution (1x).
	respectively. 4. Wash Solution - Dilute 20 mL of Wash Solution concentrate (30x) with 580 mL of deionized
	use. Dilute them to the working concentration 100-fold with Assay Diluent A and B,
	gently (not to foam). Briefly spin or centrifuge the stock Detection A and Detection B before
	Reagent A with 150µL of Reagent Diluent, keep for 10 minutes at room temperature, shake
	blank as 0 ng/mL. 3. Detection Reagent A and Detection Reagent B - If lyophilized reconstitute the Detection
	0.312 ng/mL, 0.156 ng/mL, and the last microcentrifuge tube with Standard Diluent is the
	diluted standard such as 10 ng/mL, 5 ng/mL, 2.5 ng/mL, 1.25 ng/mL, 0.625 ng/mL,
	solution is 10 ng/mL. Prepare 7 tubes containing 0.5 mL Standard Diluent and produce a double dilution series. Mix each tube thoroughly before the next transfer. Set up 7 points of
	room temperature, shake gently (not to foam). The concentration of the standard in the stock
	2. Standard - Reconstitute the Standard with 1.0 mL of Standard Diluent, keep for 10 minutes at
	experiment, and leave the remaining strips and reagents in required condition.
Reagent Preparation:	 Bring all kit components and samples to room temperature (18-25 °C) before use. If the kit will not be used up in one time, please only take out strips and reagents for present
Descent Droparation:	1. Pring all kit components and complex to ream temperature (19.25 °C) before use. If the kit
	8. Add 50µL Stop Solution. Read at 450nm immediately.
	7. Add 90µL Substrate Solution. Incubate 10-20 minutes at 37 °C,
	 Add 100µL prepared Detection Reagent B. Incubate 30 minutes at 37 °C, Aspirate and wash 5 times,
	4. Aspirate and wash 3 times,
	3. Aspirate and add 100µL prepared Detection Reagent A. Incubate 1 hour at 37 °C,

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

Product cited in:	Guo, Bakri, Abudula, Arken, Mijit, Mamtimin, Upur: "Differential integrative omic analysis for mechanism insights and biomarker discovery of abnormal Savda syndrome and its unique
Publications	
Expiry Date:	6 months
	·
	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.
Storage Comment:	 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.
Storage:	4 °C/-20 °C
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.
Handling Precaution of Use:	The Step Solution suggested for use with this kit is an axid solution. Wear over hand face, and
Restrictions:	For Research Use only
	Inter-Assay: CV < 12%
	Intra-Assay: CV < 10%
	CV(%) = SD/meanX100
	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.
	target were tested 20 times on one plate, respectively.
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level of
	 samples should be slowly thawed and centrifuged toremove precipitates. If the sample type is not specified in the instructions, a preliminary test is necessary to determinecompatibility with the kit. 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. 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).

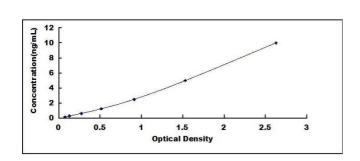
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Images



ELISA

Image 1. Typical standard curve

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