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Datasheet for ABIN4993485 Glycogen Synthase 2 ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	Glycogen Synthase 2 (GYS2)
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	78.125-5000 pg/mL
Minimum Detection Limit:	78.125 pg/mL
Application:	ELISA

Product Details

Purpose:The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of GYS2 Rat serum, plasma and other biological fluidsSample Type:Plasma, SerumAnalytical Method:QuantitativeDetection Method:ColorimetricSpecificity:This kit recognizes natural and recombinantRatGYS2. No significant cross-reactivity or interference between RatGYS2 and analogues was observed. Note: Limited by existing techniques, cross reaction may still exist, as it is impossible for us to complete the cross- reactivity detection between RatGYS2 and all the analogues.Sensitivity:46.875 pg/mLComponents:Micro ELISA Plate Reference Standard		
Analytical Method:QuantitativeDetection Method:ColorimetricSpecificity:This kit recognizes natural and recombinantRatGYS2. No significant cross-reactivity or interference between RatGYS2 and analogues was observed. Note: Limited by existing techniques, cross reaction may still exist, as it is impossible for us to complete the cross- reactivity detection between RatGYS2 and all the analogues.Sensitivity:46.875 pg/mLComponents:Micro ELISA Plate	Purpose:	The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of GYS2 in Rat serum, plasma and other biological fluids
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	Sensitivity:	46.875 pg/mL
	Components:	

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Product Details

	Concentrated Biotinylated Detection Ab
	Concentrated HRP Conjugate
	Reference Standard & Sample Diluent
	Biotinylated Detection Ab Diluent
	HRP Conjugate Diluent
	Concentrated Wash Buffer (25×)
	Substrate Reagent
	Stop Solutio
	Plate Sealer
	Product Description
	Certificate of Analysis
Material not included:	Microplate reader with 450nm wavelength filter
	High-precision transferpettor, EP tubes and disposable pipette tips
	37°C Incubator
	Deionized or distilled water
	Absorbent paper
	Loading slot for Wash Buffer

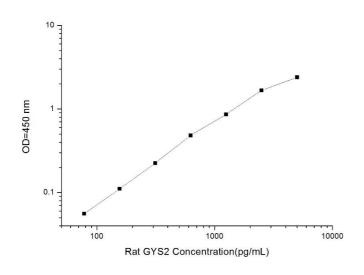
Target Details

Target:	Glycogen Synthase 2 (GYS2)
Abstract:	GYS2 Products
Pathways:	AMPK Signaling, Cellular Glucan Metabolic Process
Application Details	
Comment:	Information on standard material:
	The formulation of the standard is 0.01 M PBS. The standard contains additives (1 % BSA).
	Information on reagents:
	Reagents include 1 M SO ₂ . Azide, thimerosal, 2-mercaptoethanol (2-ME) or any other poisonous
	materials are not used.
	Information on antibodies:
	The provided antibodies and their host vary in different kits. All antibodies are affinity purified

	The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined by adding two standard deviations to the mean optical density value of twenty zero standard replicates and calculating the corresponding concentration.
Sample Volume:	100 µL
Plate:	Pre-coated
Protocol:	This ELISA kit uses Sandwich-ELISA as the method. The micro ELISA plate provided in this kit has been pre-coated with an antibody specific to GYS2. Standards or samples are added to the appropriate micro ELISA plate wells and combined with the specific antibody. Then a biotinylated detection antibody specific for GYS2and Avidin-Horseradish Peroxidase (HRP) conjugate is added to each micro plate well successively and incubated. Free components are washed away. The substrate solution is added to each well. Only those wells that contain GYS2, biotinylated detection antibody and Avidin-HRP conjugate will appear blue in color. The enzyme- substrate reaction is terminated by the addition of a sulphuric acid 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 GYS2.You can calculate the concentration of GYS2in the samples by comparing the OD of the samples to the standard curve. 6th Edition, revised in June, 2015 www.elabscience.com 4
Restrictions:	For Research Use only
Handling	
Handling Advice:	All the reagents in the kit should be stored according to the labels on vials. Unused wells should be returned to the foil pouch with the desiccant pack and resealed along entire edge of zip-seal. Substrate Reagent shouldn't be kept at -20 °C (Check!). Exposure of reagents to strong light should be avoided in the process of incubation and storage. All the taps of reagents should be tightened to prevent evaporation and microbial contamination. If not to store reagents according to above suggestions, erroneous results may occur.
Storage:	4 °C/-20 °C
Storage Comment:	The unopened kit can be stored at 4°C for 1 month. If the kit is not used within 1 month, store the items separately according to the conditions since the kit is received.

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ELISA

Image 1. Typical standard curve

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