Datasheet for ABIN4993426

EIF2A ELISA Kit

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Overview

Quantity:	96 tests
Target:	EIF2A
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	78.13 pg/mL - 5000 pg/mL
Minimum Detection Limit:	78.13 pg/mL
Application:	ELISA

Product Details

Purpose:	The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of EIF2a in human serum, plasma and other biological fluids
Sample Type:	Plasma, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This kit recognizes natural and recombinantHumanEIF2a. No significant cross-reactivity or interference between HumanEIF2a 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 HumanEIF2a and all the analogues.
Sensitivity:	46.88 pg/mL
Components:	Micro ELISA Plate Reference Standard

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*℃ Incubator*
	Deionized or distilled water
	Absorbent paper
	Loading slot for Wash Buffer

Target Details

Target:	EIF2A
Alternative Name:	Eukaryotic Translation Initiation Factor 2 Alpha (EIF2a) (EIF2A Products)
Pathways:	Ribonucleoprotein Complex Subunit Organization, ER-Nucleus Signaling, Hepatitis C, Methionine Biosynthetic Process, Ribosome Assembly

Application Details

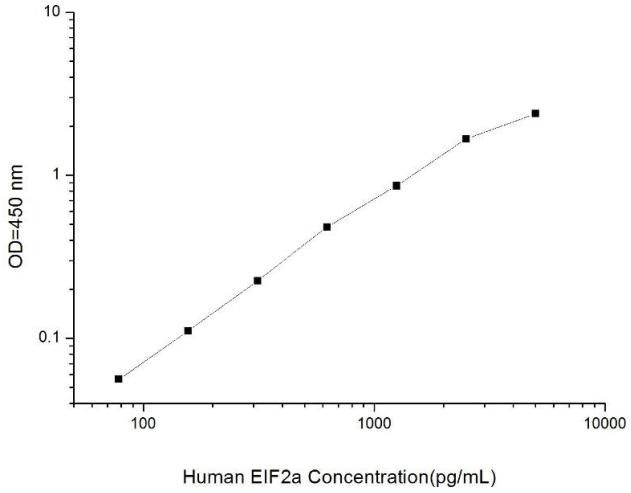
Comment:	Information on standard material: The formulation of the standard is 0.01 M PBS. The standard contains additives (1 % BSA). Information on reagents: Reagents include 1 M SO_2. Azide, thimerosal, 2-mercaptoethanol (2-ME) or any other poisonous materials are not used. Information on antibodies: The provided antibodies and their host vary in different kits. All antibodies are affinity purified

Application Details

	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 EIF2a. 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 EIF2aand 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 EIF2a, 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 EIF2a.You can calculate the concentration of EIF2ain 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*℃ 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.*



ELISA

Image 1. Typical standard curve

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