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Datasheet for ABIN4993459

Frataxin ELISA Kit





Overview

Quantity:	96 tests
Target:	Frataxin (FXN)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	23.44 pg/mL - 1500 pg/mL
Minimum Detection Limit:	23.44 pg/mL
Application:	ELISA
Product Details	
Purpose:	The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of FXN in
	human serum, plasma and other biological fluids
Sample Type:	Plasma, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This kit recognizes natural and recombinantHumanFXN. No significant cross-reactivity or
	interference between HumanFXN 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 HumanFXN and all the analogues.
Sensitivity:	14.06 pg/mL
Components:	Micro ELISA Plate
	Reference Standard

Concentrated Biotinylated Detection Ab

Concentrated HRP Conjugate

Reference Standard & Sample Diluent

Biotinylated Detection Ab Diluent

HRP Conjugate Diluent

Concentrated Wash Buffer (25x)

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:	Frataxin (FXN)
Abstract:	FXN Products
Pathways:	Transition Metal Ion Homeostasis, Regulation of Cell Size

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 $\rm SO_2$. 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 FXN. 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 FXNand 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 FXN, 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 \pm 2 nm. The OD value is proportional to the concentration of FXN. You can calculate the concentration of FXNin 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:

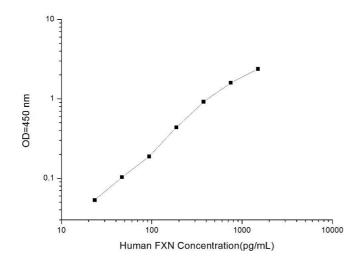
All the reagents in the kit should be stored according to the labels on vials. Unused wells should be returned to the foil pouch with the desiccant pack and resealed along entire edge of zip-seal. Substrate Reagent shouldn't be kept at -20 °C (Check!). Exposure of reagents to strong light should be avoided 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.



ELISA

Image 1. Typical standard curve