

Datasheet for ABIN5655459 **PDX1 ELISA Kit**



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Overview

Quantity: 96 tests

Target: PDX1

Reactivity: Mouse

Method Type: Sandwich ELISA

Detection Range: 0.156 ng/mL - 10 ng/mL

Minimum Detection Limit: 0.156 ng/mL

Application: ELISA

Product Details

Sample Type: Cell Lysate, Tissue Homogenate

Analytical Method: Quantitative

Detection Method: Colorimetric

Specificity: This assay has high sensitivity and excellent specificity for detection of Insulin Promoter Factor 1 (IPF). No significant cross-reactivity or interference between Insulin Promoter Factor 1 (IPF) and analogues was observed.

Sensitivity: 0.054 ng/mL

Target Details

Target: PDX1

Alternative Name: Insulin Promoter Factor 1 ([PDX1 Products](#))

Target Details

Background:	Gene Name: Insulin Promoter Factor 1 Gene Aliases: IDX1, STF1, MODY4, PDX1, GSF, IUF1, Pancreatic And Duodenal Homeobox 1, Somatostatin Transcription Factor 1, Glucose-sensitive factor, Insulin upstream factor 1
Gene ID:	18609
UniProt:	P52946
Pathways:	Nuclear Receptor Transcription Pathway , Positive Regulation of Peptide Hormone Secretion , Steroid Hormone Mediated Signaling Pathway , Hormone Transport , Carbohydrate Homeostasis , Chromatin Binding , Maintenance of Protein Location

Application Details

Comment:	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5 % within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.
Assay Time:	3 h
Plate:	Pre-coated
Protocol:	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Insulin Promoter Factor 1 (IPF). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Insulin Promoter Factor 1 (IPF). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Insulin Promoter Factor 1 (IPF), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Insulin Promoter Factor 1 (IPF) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Insulin Promoter Factor 1 (IPF) were tested 20 times on one plate, respectively Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Insulin Promoter Factor 1 (IPF) were tested on 3 different plates, 8 replicates in each plate. $CV(\%) = SD/mean \times 100$

Application Details

Intra-Assay: CV<10%

Inter-Assay: CV<12%

Restrictions: For Research Use only

Handling

Handling Advice: The Stop Solution is acidic. Do not allow to contact skin or eyes. Calibrators, controls and specimen samples should be assayed in duplicate. Once the procedure has been started, all steps should be completed without interruption.

Storage: 4 °C,-20 °C

Storage Comment: -20°C. Bring all reagents to room temperature before beginning test. The kit may be stored at 4°C for immediate use within two days upon arrival. Reseal any unused strips with desiccant pack. Minimize freeze/thaw cycles.

Expiry Date: 4-8 months