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Datasheet for ABIN5658317

PDK2 ELISA Kit



Overview

Quantity:	96 tests
Target:	PDK2
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, Plasma, Serum, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of Pyruvate Dehydrogenase Kinase Isozyme 2 (PDK2). No significant cross-reactivity or interference between Pyruvate Dehydrogenase Kinase Isozyme 2 (PDK2) and analogues was observed.
Sensitivity:	0.061 ng/mL

Target Details

Target:	PDK2
Alternative Name:	Pyruvate Dehydrogenase Kinase Isozyme 2 (PDK2 Products)

Target Details

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Background:	Gene Name: Pyruvate Dehydrogenase Kinase Isozyme 2 Gene Aliases: PDHK2, [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 2,
	mitochondrial
Gene ID:	18604
UniProt:	Q9JK42
Pathways:	PI3K-Akt Signaling, RTK Signaling, Carbohydrate Homeostasis, Regulation of Carbohydrate
	Metabolic Process, Warburg Effect
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 Pyruvate Dehydrogenase
	Kinase Isozyme 2 (PDK2). Standards or samples are then added to the appropriate microtiter
	plate wells with a biotin-conjugated antibody specific to Pyruvate Dehydrogenase Kinase
	Isozyme 2 (PDK2). 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 Pyruvate Dehydrogenase Kinase Isozyme 2 (PDK2), 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 \pm 10nm. The concentration of Pyruvate
	Dehydrogenase Kinase Isozyme 2 (PDK2) 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
	Pyruvate Dehydrogenase Kinase Isozyme 2 (PDK2) were tested 20 times on one plate,
	respectively
	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level
	Pyruvate Dehydrogenase Kinase Isozyme 2 (PDK2) were tested on 3 different plates, 8

Application Details

	replicates in each plate. CV(%) = SD/meanX100
	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