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Datasheet for ABIN1672863 **PD-1 ELISA Kit**

Image



Overview

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Quantity:	96 tests
Target:	PD-1 (PDCD1)
Binding Specificity:	AA 25-167
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156-10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human PD-1
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO
	Immunogen sequence: L25-Q167
Specificity:	Expression system for standard: NSO
	Immunogen sequence: L25-Q167
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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Product D	etails
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Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

Target Details

Target:	PD-1 (PDCD1)
Alternative Name:	PDCD1 (PDCD1 Products)
Background:	Protein Function: Inhibitory cell surface receptor involved in the regulation of T-cell function
	during immunity and tolerance. Upon ligand binding, inhibits T-cell effector functions in an
	antigen- specific manner. Possible cell death inducer, in association with other factors
	Background: Programmed cell death protein 1, also called PD-1 or PDCD1 is a protein that in
	humans is encoded by the PDCD1 gene. This gene encodes a cell surface membrane protein o
	the immunoglobulin superfamily. By fluorescence in situ hybridization, the PDCD1 gene is
	mapped to 2q37.3. This protein is expressed in pro-B-cells and is thought to play a role in their
	differentiation. In mice, expression of this gene is induced in the thymus when anti-CD3
	antibodies are injected and large numbers of thymocytes undergo apoptosis. Mice deficient for
	this gene bred on a BALB/c background developed dilated cardiomyopathy and died from
	congestive heart failure. These studies suggest that this gene product may also be important ir
	T cell function and contribute to the prevention of autoimmune diseases.
	Synonyms: Programmed cell death protein 1,Protein PD-1,hPD-1,CD279,PDCD1,PD1,
	Full Gene Name: Programmed cell death protein 1
	Cellular Localisation: Membrane, Single-pass type I membrane protein.
Gene ID:	5133
UniProt:	Q15116
Pathways:	Cancer Immune Checkpoints
Application Details	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well
	assay was recommended for both standard and sample testing.
Plate:	Pre-coated

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Application Details

Protocol:	human PD-1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay
	technology. A monoclonal antibody from mouse specific for PD-1 has been precoated onto 96-
	well plates. Standards(NSO, L25-Q167) and test samples are added to the wells, a biotinylated
	detection polyclonal antibody from goat specific for PD-1 is added subsequently and then
	followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and
	unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used
	to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color
	product that changed into yellow after adding acidic stop solution. The density of yellow is
	proportional to the human PD-1 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL,
	312pg/mL, 156pg/mL human PD-1 standard solutions into the precoated 96-well plate. Add
	0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each
	properly diluted sample of human cell culture supernates to each empty well. See "Sample
	Dilution Guideline" above for details. It is recommended that each human PD-1 standard
	solution and each sample be measured in duplicate.
Assay Precision:	 Sample 1: n=16, Mean(pg/ml): 1482, Standard deviation: 77.1, CV(%): 5.2
	 Sample 2: n=16, Mean(pg/ml): 2838, Standard deviation: 178.8, CV(%): 6.3
	 Sample 3: n=16, Mean(pg/ml): 5430, Standard deviation: 347.52, CV(%): 6.4,
	 Sample 1: n=24, Mean(pg/ml): 1326, Standard deviation: 87.52, CV(%): 6.6
	• Sample 2: n=24, Mean(pg/ml): 3263, Standard deviation: 238.2, CV(%): 7.3
	 Sample 3: n=24, Mean(pg/ml): 6102, Standard deviation: 470, CV(%): 7.7
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months



ELISA

Image 1. Human PD-1 PicoKine ELISA Kit standard curve

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