Datasheet for ABIN3044711

PD-L1 ELISA Kit

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Overview

Quantity:	96 tests
Target:	PD-L1
Binding Specificity:	AA 19-239
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse PD-L1/B7-H1
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Immunogen sequence: F19-H239
Specificity:	Expression system for standard: NSO Immunogen sequence: F19-H239
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<10pg/mL

Product Details

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-L1
Alternative Name:	CD274 (PD-L1 Products)
Background:	Protein Function: Involved in the costimulatory signal essential for T- cell proliferation and IFNG production in a PDCD1-independent manner. Interaction with PDCD1 inhibits T-cell proliferation by blocking cell cycle progression and cytokine production. . Background: Programmed death-ligand 1 (PD-L1), also known as cluster of differentiation 274 (CD274) or B7 homolog 1 (B7-H1), is a protein that in humans is encoded by the CD274 gene. PD-L1 is a 40 kDa type 1 transmembrane protein that has been speculated to play a major role in suppressing the immune system during particular events such as pregnancy, tissue allografts, autoimmune disease and other disease states such as hepatitis. Normally the immune system reacts to foreign antigens where there is some accumulation in the lymph nodes or spleen which triggers a proliferation of antigen-specific CD8+ T cell. The formation of PD-1 receptor / PD-L1 or B7.1 receptor /PD-L1 ligand complex transmits an inhibitory signal which reduces the proliferation of these CD8+ T cells at the lymph nodes and supplementary to that PD-1 is also able to control the accumulation of foreign antigen specific T cells in the lymph nodes through apoptosis which is further mediated by a lower regulation of the gene Bcl-2. Synonyms: Programmed cell death 1 ligand 1,PD-L1,PDCD1 ligand 1,Programmed death ligand 1,B7 homolog 1,B7-H1,CD274,Cd274,B7h1, Pdcd1l1, Pdcd1lg1, Pdl1, Full Gene Name: Programmed cell death 1 ligand 1 Cellular Localisation: Cell membrane, Single-pass type I membrane protein.
Gene ID:	60533
UniProt:	Q9EP73
Pathways:	Cancer Immune Checkpoints

Application Details

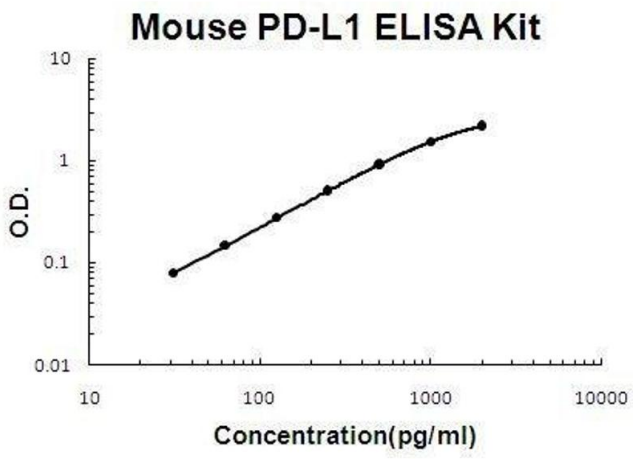
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well

Application Details

	assay was recommended for both standard and sample testing.
Comment:	Tissue Specificity: Highly expressed in the heart, thymus, skeletal muscle, and lung. Weakly expressed in the kidney, spleen, thyroid, and liver. Expressed on activated dendritic cells, B- cells and macrophages. Expressed in numerous tumor cells lines of lymphoid origin. .
Plate:	Pre-coated
Protocol:	mouse PD-L1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for PD-L1 has been precoated onto 96-well plates. Standards(Expression system for standard: NSO, Immunogen sequence: F19-H239) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for PD-L1 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 mouse PD-L1 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL mouse PD-L1 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 mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each mouse PD-L1 standard solution and each sample be measured in duplicate.
Restrictions:	For Research Use only

Handling

Buffer:	heparin or EDTA
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	4 °C,-20 °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. Mouse PD-L1/B7-H1 PicoKine ELISA Kit standard curve

