

Datasheet for ABIN3044710 **PD-L1 ELISA Kit** 

Image



#### Overview

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| Quantity:                | 96 tests        |
|--------------------------|-----------------|
| Target:                  | PD-L1           |
| Binding Specificity:     | AA 19-238       |
| Reactivity:              | Human           |
| Method Type:             | Sandwich ELISA  |
| Detection Range:         | 62.5-4000 pg/mL |
| Minimum Detection Limit: | 62.5 pg/mL      |
| Application:             | ELISA           |

# Product Details

| Purpose:                    | Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human 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-R238  |
| Specificity:                | Expression system for standard: NSO<br>Immunogen sequence: F19-R238                 |
| Cross-Reactivity (Details): | There is no detectable cross-reactivity with other relevant proteins.               |
| Sensitivity:                | <12pg/mL  |

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## Product Details

Material not included:Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipettetips. Multichannel pipettes are recommended in the condition of large amount of samples in the<br/>detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation<br/>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 |
|                     | production of IL10 and IFNG, in an IL2- dependent and a PDCD1-independent manner.               |
|                     | Interaction with PDCD1 inhibits T-cell proliferation 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 o |
|                     | 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 t    |
|                     | 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 Bo    |
|                     | 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: Isoform 1: Cell membrane, Single-pass type I membrane protein.           |
| Gene ID:            | 29126   |
| JniProt:            | Q9NZQ7  |
| Pathways:           | Cancer Immune Checkpoints   |
| Application Details |   |
| Application Notes:  | Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well    |

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| Application Details |  |
|---------------------|--|
|                     | assay was recommended for both standard and sample testing.  |
| Comment:            | Tissue Specificity: Highly expressed in the heart, skeletal muscle, placenta and lung. Weakly  |
|                     | expressed in the thymus, spleen, kidney and liver. Expressed on activated T- and B-cells, dendritic cells, keratinocytes and monocytes |
| Plate:              | Pre-coated   |
| Protocol:           | human PD-L1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent  |
|                     | assay technology. A monoclonal antibody from mouse specific for PD-L1 has been precoated   |
|                     | onto 96-well plates. Standards(Expression system for standard: NSO, Immunogen sequence:  |
|                     | F19-R238) 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 human                                      |
|                     | PD-L1 amount of sample captured in plate.  |
| Assay Procedure:    | Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL,   |
|                     | 125pg/mL, 62.5pg/mL human 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 human cell culture supernates, serum or plasma(heparin, EDTA) to  |
|                     | each empty well. See "Sample Dilution Guideline" above for details. It is recommended that   |
|                     | each human 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  |

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#### **ELISA**

**Image 1.** Human PD-L1/B7-H1 PicoKine ELISA Kit standard curve

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