

## Technical Data Sheet

### PE Conjugated Human PD-L1 Protein (C-Fc)

**Catalog Number:** 801101, 801102

**Size:** 25 ug, 100 ug

**Target Name:** PD-L1, CD274, B7-H1, PDCD1L1, PDCD1LG1,

**Regulatory Status:** RUO

#### Product Details

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**Application:** FC

**Format:** Liquid, PE

**Expression Host:** HEK293

**Species:** Human

**Sources:** Recombinant Human PD-L1 (Phe19-Thr239) with C-terminus Fc tag is expressed in HEK293 cells and conjugated to PE.

**Accession Number:** Q9NZQ7

**Molecular Weight:** The protein has a predicted molecular weight of 54kDa. Under DTT-reducing conditions, it migrates at approximately 70 kDa on SDS-PAGE prior to conjugation.

**Affinity Tag:** C-Fc

**Formulation:** 1xPBS buffer, pH7.4, 0.09% NaN<sub>3</sub> with a carrier protein

**Endotoxin level:** Not tested

**Protein Concentration:** 25µg size is bottled at 0.1mg/mL concentration. 100 µg size is bottled at lot specific concentration.

**Storage and Handling:** Briefly centrifuge the vial upon receipt. An unopened vial may be stored at 2–8°C for up to six months.

#### Background Information

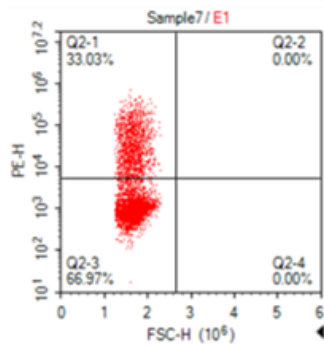
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Programmed death-ligand 1 (PD-L1, also known as CD274 or B7-H1) is a type I transmembrane glycoprotein and a key immune checkpoint molecule in the B7 family. It is broadly expressed on immune cells (such as T cells, B cells, macrophages, and dendritic cells) and in various tissues, as well as on many tumor types. PD-L1 interacts with its receptor PD-1, expressed on activated T and B cells, to deliver inhibitory signals that suppress T cell proliferation, cytokine production, and cytolytic function. This interaction plays a critical role in maintaining immune homeostasis, preventing autoimmunity, and enabling immune evasion by tumors. Therapeutic antibodies targeting PD-L1 or PD-1 have shown significant clinical benefit in cancer immunotherapy by restoring T cell activity. PD-L1 is also implicated in tolerance during pregnancy, chronic infections, and transplantation. It contains two extracellular Ig-like domains, and its expression can be induced by inflammatory cytokines such as IFN- $\gamma$ .

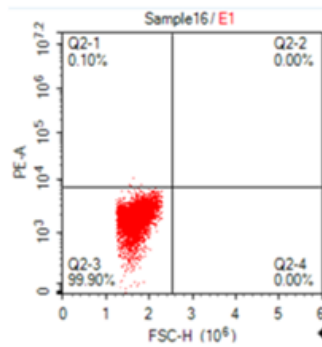
#### Product Data

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**A: PD-L1 CAR-transfected CHO Cells**



**B: Mock-transfected CHO Cells**



CHO cells transfected with either PD-L1 CAR or Mock plasmid were stained with PE conjugated PD-L1 Fc protein at 4ug\_test