

## PE Human PD-L1 (CD274) Protein (C-His)

<b>Catalog Number:</b>	800801, 800802
<b>Size:</b>	25 ug, 100 ug
<b>Target Name:</b>	PD-L1, CD274, B7-H1, PDCD1L1, PDCD1LG1,
<b>Regulatory Status:</b>	RUO

### PRODUCT DETAILS

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<b>Application:</b>	Flow Cytometry
<b>Format:</b>	Liquid, PE
<b>Expression Host:</b>	HEK293
<b>Species:</b>	Human
<b>Sources:</b>	Recombinant Human PD-L1 (Phe19-Thr239) with C-terminus His tag is expressed in CHO cells and conjugated to PE.
<b>Accession Number:</b>	Q9NZQ7
<b>Molecular Weight:</b>	The protein has a predicted molecular weight of 28kDa. Under DTT-reducing conditions, it migrates at approximately 35 kDa on SDS-PAGE prior to conjugation.
<b>Affinity Tag:</b>	C-His
<b>Formulation:</b>	1xPBS buffer, pH7.4, 0.09% NaN3 with a carrier protein
<b>Endotoxin level:</b>	Not tested
<b>Protein Concentration:</b>	25µg size is bottled at 0.1mg/mL concentration. 100 µg size is bottled at lot specific concentration.
<b>Storage and Handling:</b>	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

Sample11/E1

Sample2/E1

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

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