

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

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

PRODUCT DETAILS

Application:	Flow Cytometry
Format:	Liquid, PE
Expression Host:	HEK293
Species:	Human
Sources:	Recombinant Human PD-L1 (Phe19-Thr239) with C-terminus His tag is expressed in CHO cells and conjugated to PE.
Accession Number:	Q9NZQ7
Molecular Weight:	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.
Affinity Tag:	C-His
Formulation:	1xPBS buffer, pH7.4, 0.09% NaN3 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

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-γ.

PRODUCT DATA

A: PD-L1 CAR-transfected CHO Cells

B: Mock-transfected CHO Cells

2 Sample11/E1

2 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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