

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

|                           |                                         |
|---------------------------|-----------------------------------------|
| <b>Catalog Number:</b>    | 800803, 800804                          |
| <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

|                               |                                                                                                                                                             |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application:</b>           | Flow Cytometry                                                                                                                                              |
| <b>Format:</b>                | Liquid, APC                                                                                                                                                 |
| <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 APC.                                             |
| <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.                                                     |

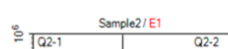
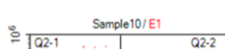
### BACKGROUND INFORMATION

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**



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

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