InnoCyto Inc.
15375 Barranca Pkwy, Suite I-103
Irvine, CA 92618

Technical Data Sheet

APC Conjugated Human PD-L1 Protein (C-His)

Catalog Number: 800803, 800804
Size: 25 ug, 100 ug
Target Name: PD-L1, CD274, B7-H1, PDCD1L1, PDCD1LG1,
Regulatory Status: RUO

Product Details

Application: FC
Format: Liquid, APC
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 APC.
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-?.

Product Data

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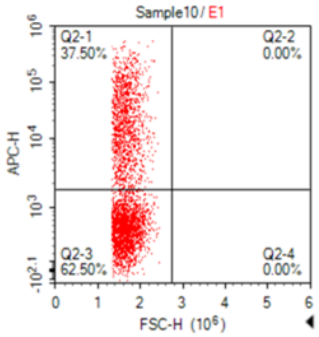
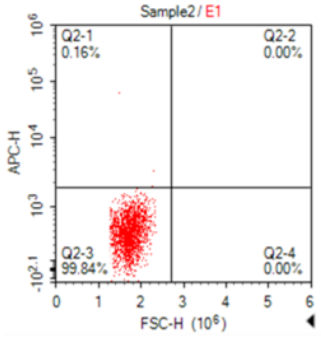
A: PD-L1 CAR-transfected CHO Cells



B: Mock-transfected CHO Cells



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