InnoCyto Inc.
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Technical Data Sheet

APC Human B7-2 (CD86) Protein (C-His)

Catalog Number: 817403, 817404
Size: 25 ug, 100 ug
Target Name: CD86, B7-2, B70, CD28LG2
Regulatory Status: RUO

Product Details

Application: Flow Cytometry
Format: Liquid, APC
Expression Host: CHO
Species: Human
Sources: Recombinant Human B7-2 (CD86) (Leu20-Pro247) with C-terminus His-tag is expressed in CHO cell and conjugated to APC.
Accession Number: P05408
Molecular Weight: The protein has a predicted molecular weight of 27.5 kDa. Under DTT-reducing conditions, it migrates at approximately 45 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

CD86 (B7-2) is a member of the immunoglobulin superfamily, expressed predominantly as a monomer on cell surfaces, and interacts with co-stimulatory receptors CD28 and CTLA-4 on T cells. This interaction regulates T cell activation, tolerance, cytokine production, and the generation of cytotoxic T lymphocytes (CTL). CD86 plays a critical role in promoting B and T helper cell interactions, supporting B cell proliferation and IgG secretion, particularly in B cell lymphomas. It also contributes to the development of a mature antigen-presenting cell (APC) repertoire, enhancing APC function and survival. CD86 is involved in chronic hemodialysis, allergic pulmonary inflammation, arthritis, and antiviral responses, positioning it as a potential target for immune therapies.