

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

Catalog Number:	817703, 817704
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 Fc-tag is expressed in CHO cell and conjugated to APC.
Accession Number:	P05408
Molecular Weight:	The protein has a predicted molecular weight of 52.1 kDa. Under DTT-reducing conditions, it migrates at approximately 75 kDa on SDS-PAGE prior to conjugation.
Affinity Tag:	C-Fc
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.