

## PE Human B7-2 (CD86) Protein (C-His)

|                           |                          |
|---------------------------|--------------------------|
| <b>Catalog Number:</b>    | 817401, 817402           |
| <b>Size:</b>              | 25 ug, 100 ug            |
| <b>Target Name:</b>       | CD86, B7-2, B70, CD28LG2 |
| <b>Regulatory Status:</b> | RUO                      |

### PRODUCT DETAILS

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|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application:</b>           | Flow Cytometry                                                                                                                                                 |
| <b>Format:</b>                | Liquid, PE                                                                                                                                                     |
| <b>Expression Host:</b>       | CHO                                                                                                                                                            |
| <b>Species:</b>               | Human                                                                                                                                                          |
| <b>Sources:</b>               | Recombinant Human B7-2 (CD86) (Leu20-Pro247) with C-terminus His-tag is expressed in CHO cell and conjugated to PE.                                            |
| <b>Accession Number:</b>      | P05408                                                                                                                                                         |
| <b>Molecular Weight:</b>      | 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. |
| <b>Affinity Tag:</b>          | C-His                                                                                                                                                          |
| <b>Formulation:</b>           | 1xPBS buffer, pH7.4, 0.09% NaN <sub>3</sub> 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

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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.