

PRODUCT INFORMATION

|                              |                                                                                                                                                                                                                                                                                               |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target                       | B7-1                                                                                                                                                                                                                                                                                          |
| Synonyms                     | CD80;B7;B7-1;B7.1;BB1;CD28LG;CD28LG1;LAB7                                                                                                                                                                                                                                                     |
| Description                  | Recombinant human B7-1 protein with C-terminal human Fc tag                                                                                                                                                                                                                                   |
| Delivery                     | In Stock                                                                                                                                                                                                                                                                                      |
| Uniprot ID                   | P33681                                                                                                                                                                                                                                                                                        |
| Expression Host              | HEK293                                                                                                                                                                                                                                                                                        |
| Tag                          | C-Human Fc Tag                                                                                                                                                                                                                                                                                |
| Molecular Characterization   | B7-1(Val35-Asn242) hFc(Glu99-Ala330)                                                                                                                                                                                                                                                          |
| Molecular Weight             | The protein has a predicted molecular mass of 50.0 kDa after removal of the signal peptide.                                                                                                                                                                                                   |
| Purity                       | The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.                                                                                                                                                                                          |
| Formulation & Reconstitution | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.                                                                                              |
| Storage & Shipping           | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.                                           |
| Background                   | The protein encoded by this gene is a membrane receptor that is activated by the binding of CD28 or CTLA-4. The activated protein induces T-cell proliferation and cytokine production. This protein can act as a receptor for adenovirus subgroup B and may play a role in lupus neuropathy. |
| Usage                        | Research use only                                                                                                                                                                                                                                                                             |
| Conjugate                    | Unconjugated                                                                                                                                                                                                                                                                                  |



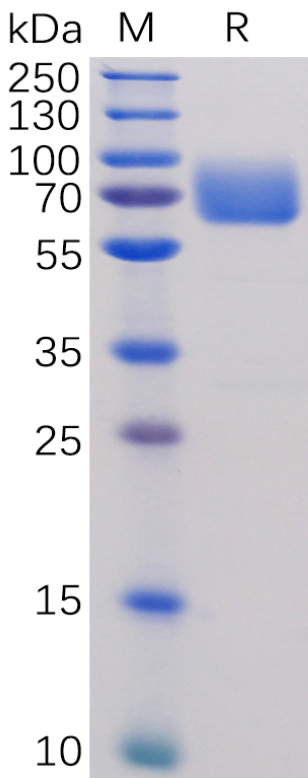


Figure 1. Human B7-1 Protein, hFc Tag on SDS-PAGE under reducing condition.

**Human B7-1, hFc Tagged protein ELISA**  
0.2 µg of Human B7-1, hFc Tagged protein per well

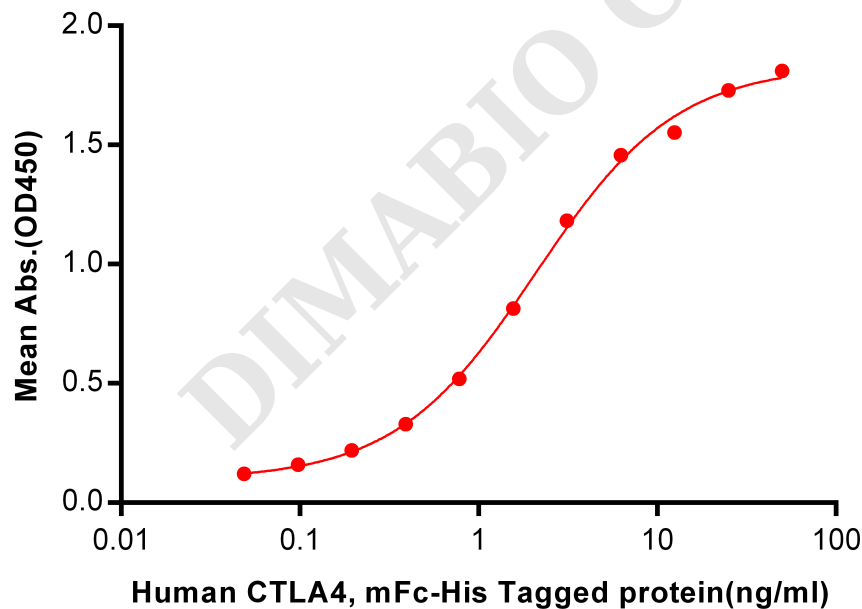


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human B7-1, hFc tagged protein (PME100473) can bind Human CTLA4, mFc-His tagged protein PME100017 in a linear range of 0.048-2.094 ng/ml.



**Human B7-1, hFc Tagged protein ELISA**

0.2 µg of B7-1, hFc Tagged protein per well

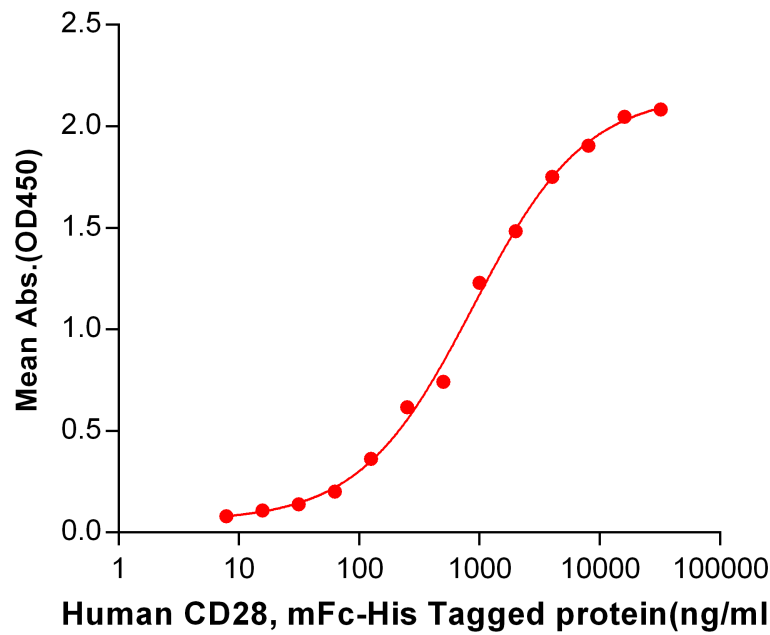


Figure 3. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human B7-1, hFc tagged protein (PME100473) can bind Human CD28, mFc-His tagged protein PME100014 in a linear range of 125-4000 ng/ml.

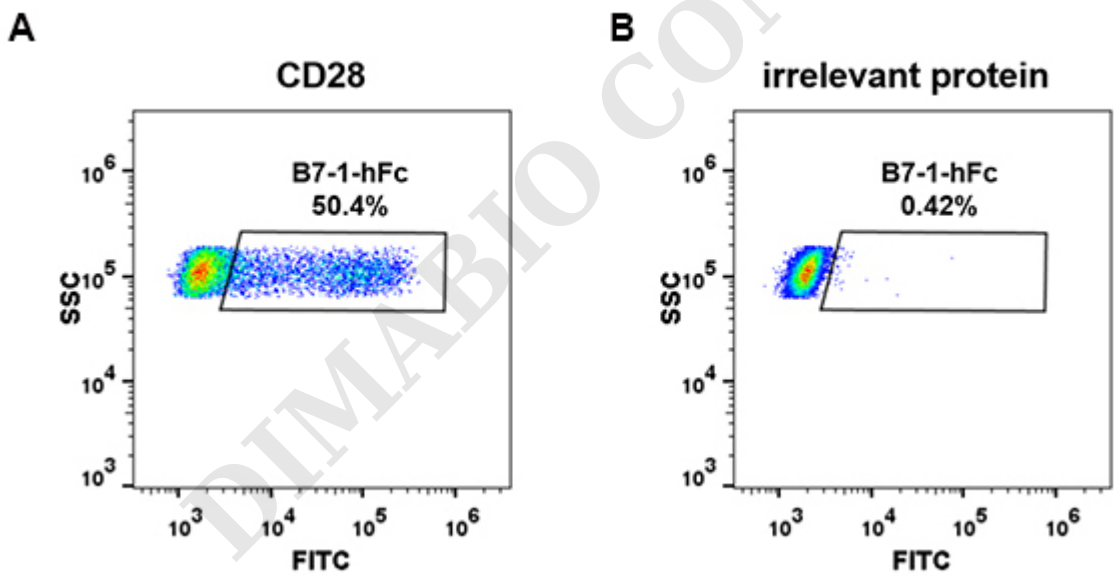


Figure 4. HEK293 cell line transfected with irrelevant protein (B) and human CD28 (A) were surface stained with Human B7-1, hFc tagged protein (PME100473) 1 µg/ml followed by Alexa 488-conjugated anti-human IgG secondary antibody.



**Human B7-1, hFc tagged protein ELISA**  
0.1 µg of Human B7-1, hFc tagged protein per well

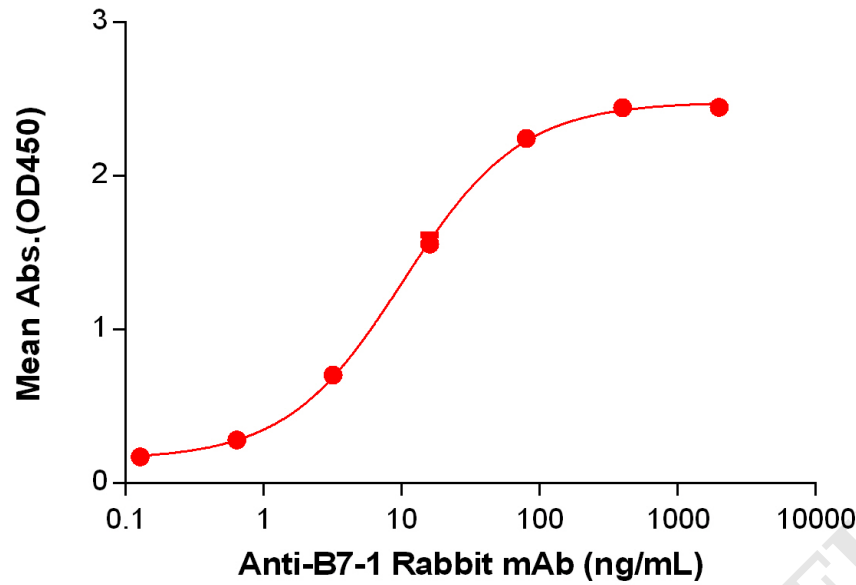


Figure 5. ELISA plate pre-coated by 1 µg/mL (100 µL/well) Human B7-1 Protein, hFc Tag (PME100473) can bind Anti-B7-1 Rabbit mAb in a linear range of 3.2-80 ng/mL.

