

PRODUCT INFORMATION

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|------------------------------|---|
| 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 |



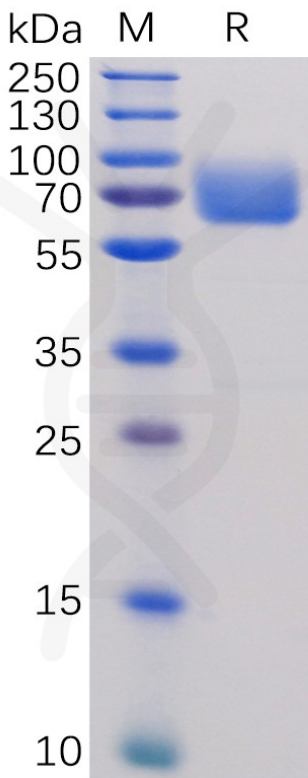


Figure 1. Human B7-1 Protein, hFc Tag on SDS-PAGE under reducing condition.

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

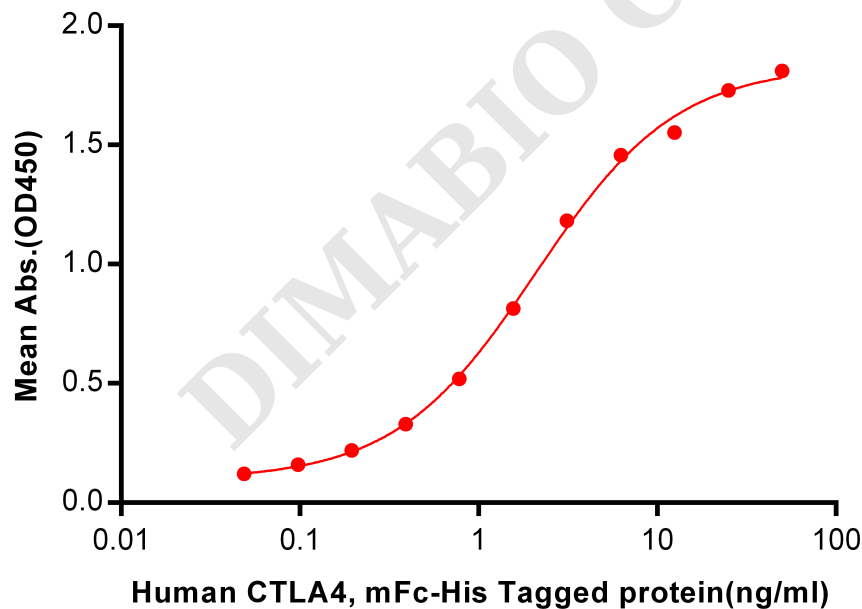


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human B7-1, hFc tagged protein (PME100473) can bind Human CTLA4, mFc-His tagged protein PME100017 in a linear range of 0.048-2.094 ng/ml.



Human B7-1, hFc Tagged protein ELISA

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

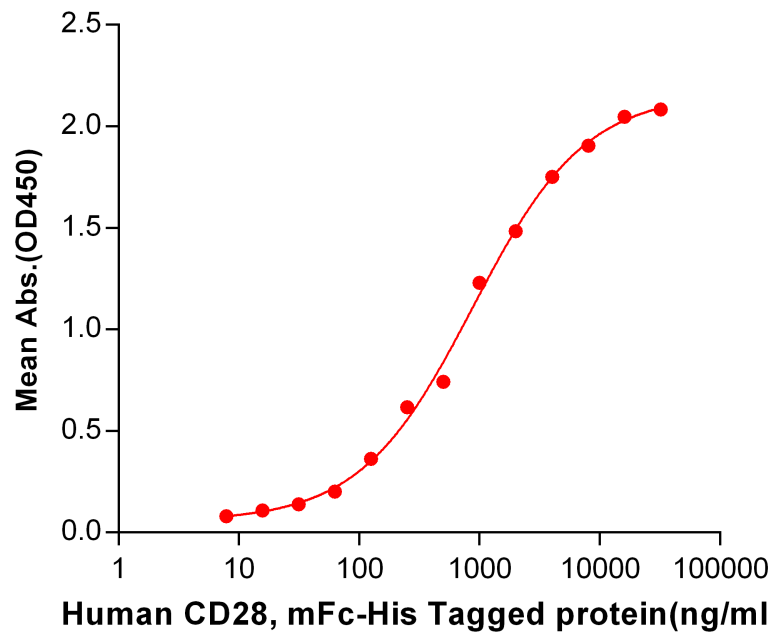


Figure 3. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human B7-1, hFc tagged protein (PME100473) can bind Human CD28, mFc-His tagged protein PME100014 in a linear range of 125-4000 ng/ml.

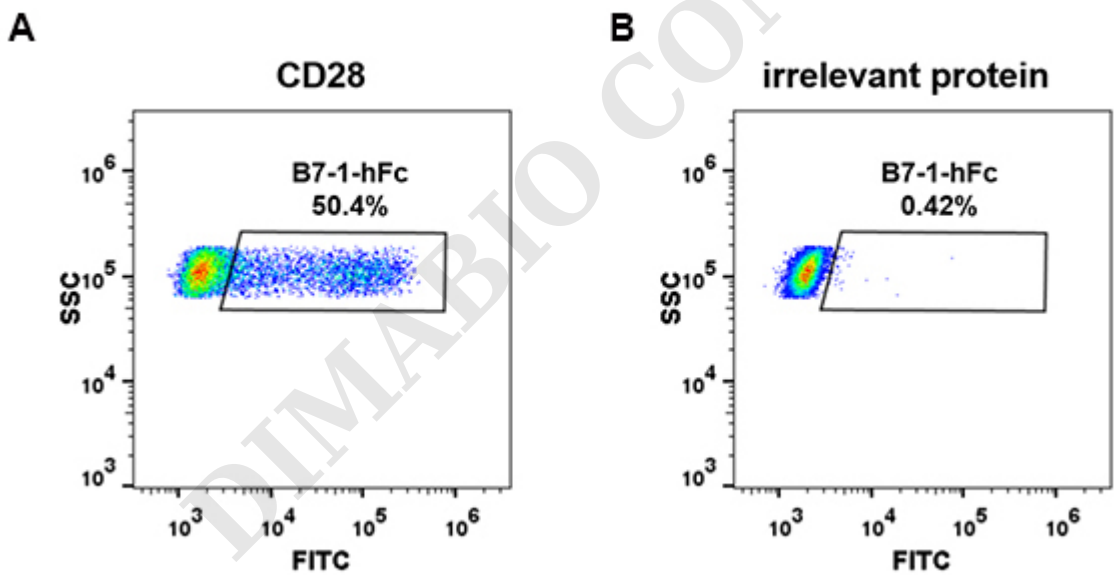


Figure 4. HEK293 cell line transfected with irrelevant protein (B) and human CD28 (A) were surface stained with Human B7-1, hFc tagged protein (PME100473) 1 µg/ml followed by Alexa 488-conjugated anti-human IgG secondary antibody.



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

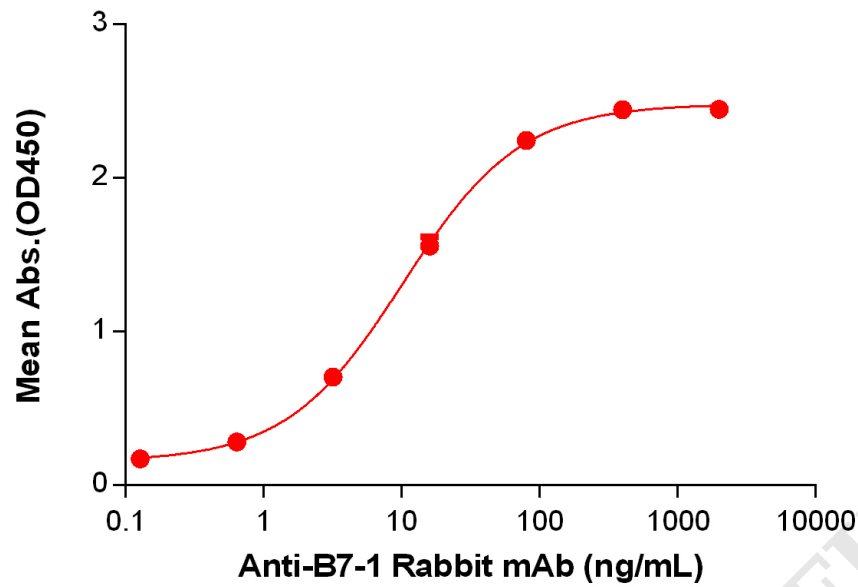


Figure 5. ELISA plate pre-coated by 1 µg/mL (100 µL/well) Human B7-1 Protein, hFc Tag (PME100473) can bind Anti-B7-1 Rabbit mAb in a linear range of 3.2-80 ng/mL.

