

**PRODUCT INFORMATION**

<b>Target</b>	B7-1
<b>Synonyms</b>	CD80;B7;B7-1;B7.1;BB1;CD28LG;CD28LG1;LAB7
<b>Description</b>	Recombinant Human B7-1 Protein with C-terminal Mouse Fc and 6×His tag
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P33681
<b>Expression Host</b>	HEK293
<b>Tag</b>	C-Mouse Fc and 6×His Tag
<b>Molecular Characterization</b>	B7-1(Val35-Asn242) mFc(Pro99-Lys330) 6×His tag
<b>Molecular Weight</b>	The protein has a predicted molecular mass of 50.9 kDa after removal of the signal peptide. The apparent molecular mass of B7-1-mFc-His is approximately 70-130 kDa due to glycosylation.
<b>Purity</b>	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
<b>Formulation &amp; Reconstitution</b>	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.
<b>Storage &amp; Shipping</b>	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.
<b>Background</b>	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.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



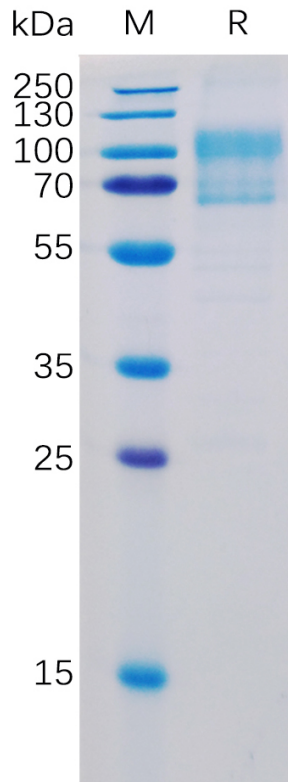


Figure 1. Human B7-1 Protein, mFc-His Tag on SDS-PAGE under reducing condition.

### Human B7-1, mFc-His tagged protein ELISA

0.1  $\mu$ g of Human B7-1, mFc-His tagged protein per well

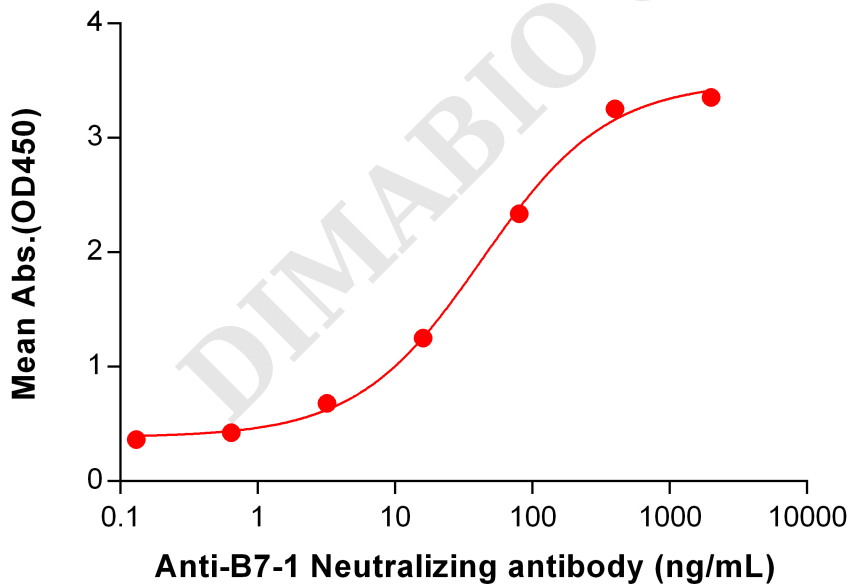


Figure 2. ELISA plate pre-coated by 1  $\mu$ g/ml (100  $\mu$ l/well) Human B7-1, mFc-His tagged protein (PME100047) can bind anti-B7-1 monoclonal antibody, Rabbit mAb clone: DM111 in a linear range of 0.13-80 ng/ml.



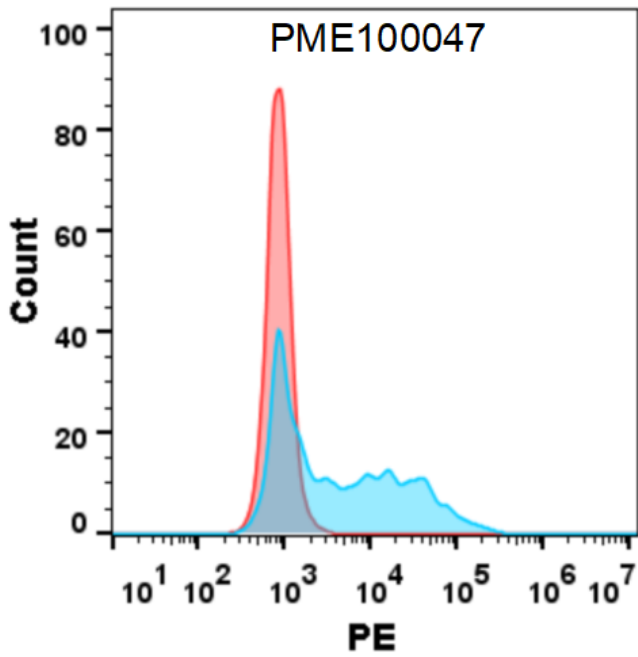


Figure 3. Flow cytometry analysis with 15 µg/mL Human B7-1 Protein, mFc-His tag (PME100047) on Expi293 cells transfected with human CD28 (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).

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