

HUMAN B7-1 PROTEIN, MFC-HIS TAG**Cat.#:** 11173**Product Name:** Human B7-1 Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** CD80;7;7-1;7.1;B1;D28LG;D28LG1;AB7**Target:** B7-1**UNIPROT ID:** P33681**Description:** Recombinant Human B7-1 Protein with C-terminal Mouse Fc and 6xHis tag**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.**Species/Host:** HEK293**Molecular Weight:** 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.**Molecular Characterization:** B7-1(Val35-Asn242) mFc(Pro99-Lys330) 6×His tag**Purity:** The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.**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.

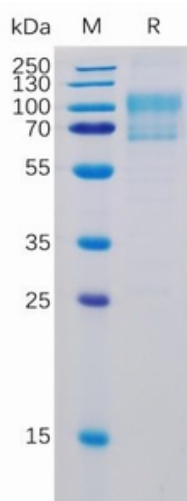


Figure 1. Human B7-1 Protein, mFc-His Tag on SDS-PAGE under reducing condition.

Human B7-1, mFc-His tagged protein ELISA

0.1 μ g of Human B7-1, mFc-His tagged protein per well

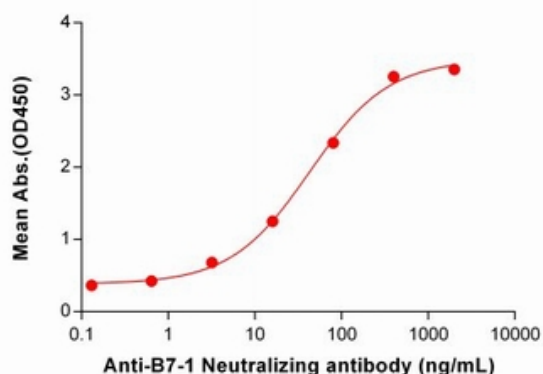


Figure 2. ELISA plate pre-coated by 1 μ g/ml (100 μ l/well) Human B7-1, mFc-His tagged protein (11173) can bind anti-B7-1 monoclonal antibody, Rabbit mAb clone: DM111 in a linear range of 0.13-80 ng/ml.

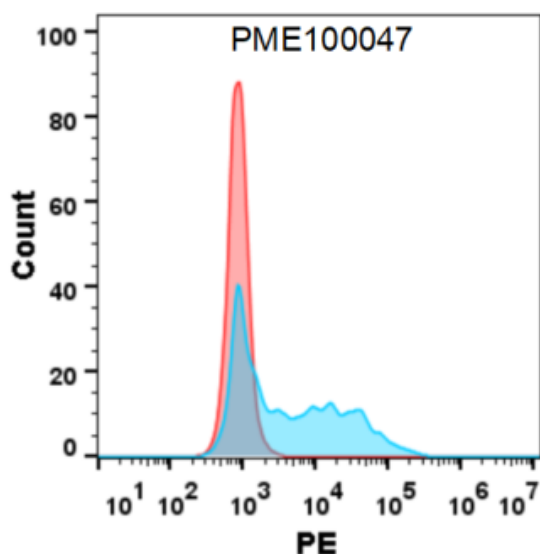


Figure 3. Flow cytometry analysis with 15 μ g/ml Human B7-1 Protein, mFc-His tag (11173) on Expi293 cells transfected with human CD28 (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).