

HUMAN PD-1 PROTEIN, MFC-HIS TAG

Cat.#: 11153

Product Name: Human PD-1 Protein

Size : 10 µg, 50 µg and 100 µg

Synonyms: PD1;CD279;SLEB2

Target: PD-1

UNIPROT ID: Q15116

Description: Recombinant human PD-1 protein with C-terminal mouse Fc and 6xHis tag

Background: This protein is expressed in pro-B-cells and is thought to play a role in their differentiation. In mice, expression of this gene is induced in the thymus when anti-CD3 antibodies are injected and large numbers of thymocytes undergo apoptosis. Mice deficient for this gene bred on a BALB/c background developed dilated cardiomyopathy and died from congestive heart failure. These studies suggest that this gene product may also be important in T cell function and contribute to the prevention of autoimmune diseases.

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 43.5 kDa after removal of the signal peptide.

Molecular Characterization: PD-1(Phe24-Val170) 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.

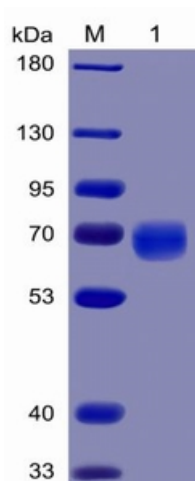


Figure 1. Human PD-1 Protein, mFc-His Tag on SDS-PAGE under reducing condition.

Human PD1, mFc Tagged protein ELISA

0.2 μ g of Human PD1, mFc Tagged protein per well

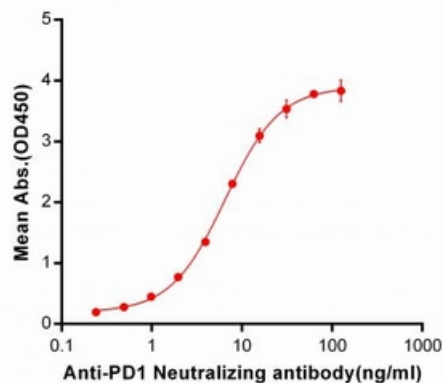


Figure 2. ELISA plate pre-coated by 2 μ g/ml (100 μ l/well) Human PD1, mFc-His tagged protein (11153) can bind Anti-PD-1 Neutralizing antibody 28015 in a linear range of 0.24-6.49 ng/ml.

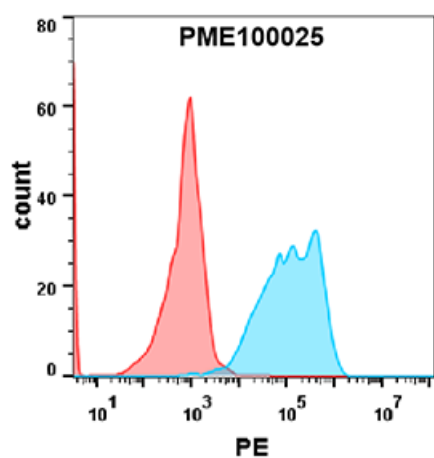


Figure 3. Flow cytometry analysis with 2 μ g/ml Human PD-1 Protein, mFc-His tag (11153) on Expi293 cells transfected with human PD-L1 (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).

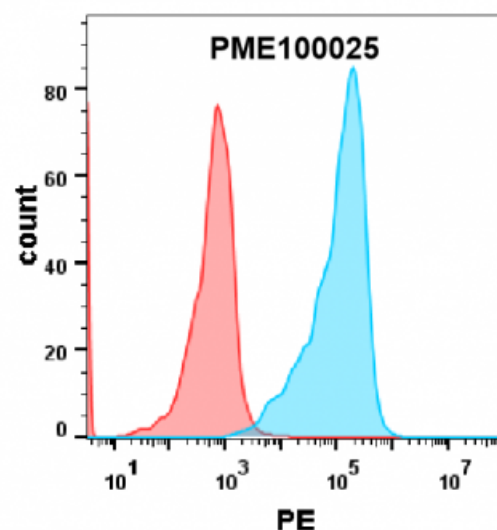


Figure 4. HEK293 cell line transfected with irrelevant protein (red histogram) and human PD-L2 protein (blue histogram) were surface stained with 2 μ g/ml Human PD-1 Protein, mFc-His tag (11153) followed by PE-conjugated Goat anti-mouse IgG secondary antibody.