

## HUMAN PD-1 PROTEIN, HFC-HIS TAG

目录: 11274

产品名称: Human PD-1 Protein

规格: 10 µg, 50 µg and 100 µg

基因符号: PDCD1;PD1;CD279;SLEB2

**Target:** PD-1

**UNIPROT ID:** Q15116

**描述:** Recombinant human PD-1 protein with C-terminal human Fc and 6xHis tag

**背景:** 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 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 42.9 kDa after removal of the signal peptide.

**Molecular Characterization:** PD-1(Leu25-Gln167) hFc(Glu99-Ala330) 6×His tag

**纯化:** The purity of the protein is greater than 90% 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.

**储存和运输:** 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.

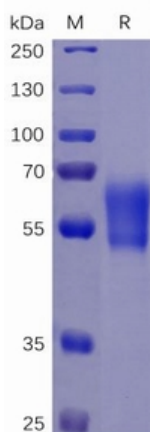


Figure 1. Human PD-1 Protein, hFc-His Tag on SDS-PAGE under reducing condition.

## Human PD1, hFc-His Tagged protein ELISA

0.2 µg of PD1, hFc-His Tagged protein per well

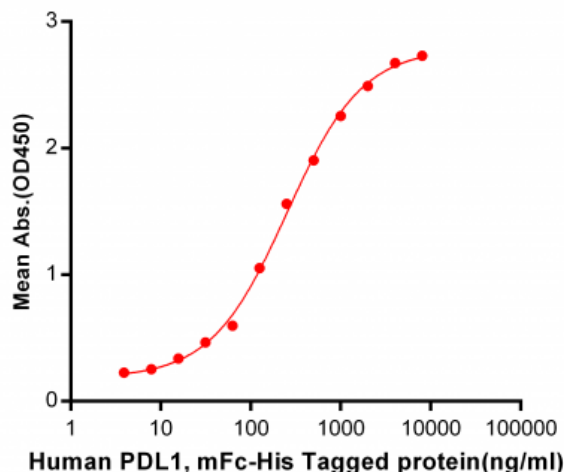


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human PD1, hFc-His tagged protein (11274) can bind Human PDL1, mFc-His tagged protein 11151 in a linear range of 62.5-251.1 ng/ml.

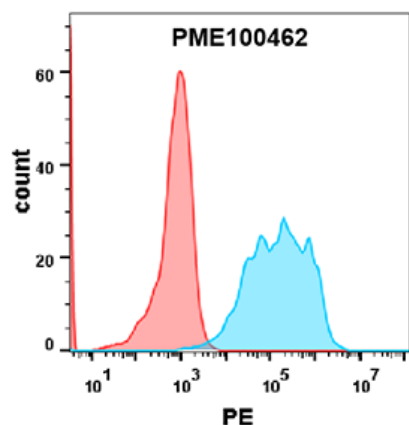


Figure 3. Flow cytometry analysis with 0.2 µg/ml Human PD-1 Protein, hFc-His tag (11274) on Expi293 cells transfected with human PD-L1 (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).

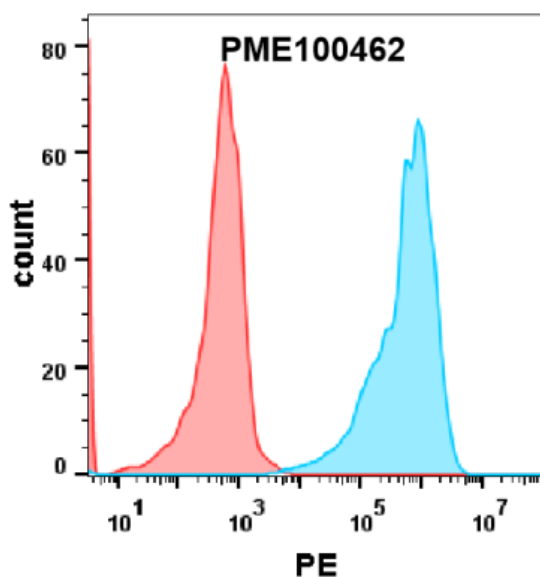


Figure 4. HEK293 cell line transfected with irrelevant protein (red histogram) and human PD-L2 protein (blue histogram) were surface stained with 2 µg/ml Human PD-1 Protein, hFc-His tag (11274) followed by PE-conjugated Goat human IgG secondary antibody.