

## **PRODUCT INFORMATION**

**Target** PD-1

**Synonyms** PDCD1;PD1;CD279;SLEB2

Recombinant human PD-1 protein with C-terminal **Description** 

mouse Fc and 6×His tag

**Delivery** In Stock **Uniprot ID** Q15116 **Expression Host HEK293** 

Tag C-Mouse Fc and 6×His Tag

Molecular PD-1(Phe24-Val170) mFc(Pro99-Lys330) 6×His

Characterization

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

The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

**Purity** 

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before Formulation &

lyophilization. Please see Certificate of Analysis Reconstitution

for specific instructions of reconstitution. 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).

Storage & Shipping

Lyophilized proteins are shipped at ambient

temperature.

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

**Background** 

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.

Usage Research use only

Conjugate Unconjugated





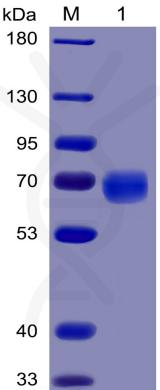


Figure 1. Human PD-1 Protein, mFc-His Tag on SDS-PAGE under reducing condition.

## Human PD1, mFc Tagged protein ELISA

0.2 µg of Human PD1, mFc Tagged protein per well

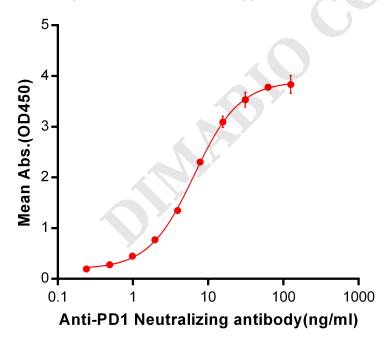


Figure 2. ELISA plate pre-coated by 2  $\mu$ g/ml (100  $\mu$ l/well) Human PD1, mFc-His tagged protein (PME100025) can bind Anti-PD-1 Neutralizing antibody BME100006 in a linear range of 0.24-6.49 ng/ml.

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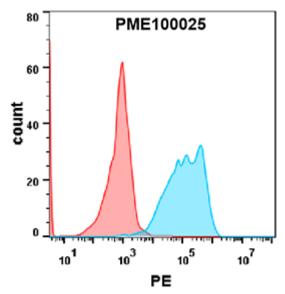


Figure 3. Flow cytometry analysis with  $2\mu g/ml$  Human PD-1 Protein, mFc-His tag (PME100025) on Expi293 cells transfected with human PD-L1 (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).

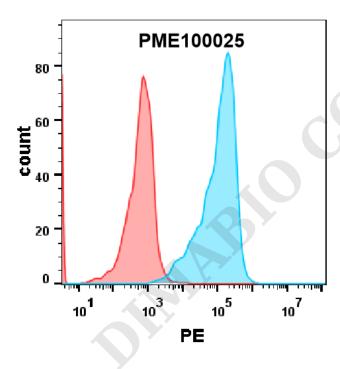


Figure 4. HEK293 cell line transfected with irrelevant protein (red histogram) and human PD-L2 protein (blue histogram) were surface stained with 2µg/mL Human PD-1 Protein, mFc-His tag (PME100025) followed by PE-conjugated Goat antimouse IgG secondary antibody.

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