

PRODUCT INFORMATION

PD-1 **Target**

CD279, PD-1, PD1, SLEB2, hPD-1, hPD-I, hSLE1 **Synonyms**

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

mouse Fc tag

Delivery In Stock

Uniprot ID NP_001301026.1

Expression Host HEK293

Tag C-Mouse Fc tag

Molecular

Molecular Weight

Reconstitution

Background

PD-1(Leu25-Gly168) mFc(Pro99-Lys330) Characterization

The protein has a predicted molecular mass of

42.4 kDa after removal of the signal peptide. The apparent molecular mass of dPD-1-mFc is approximately 55-70 kDa due to glycosylation.

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 % Formulation &

- 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis 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 Storage & Shipping at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

Programmed cell death protein 1 (PDCD1) is an

immune-inhibitory receptor expressed in activated T cells; it is involved in the regulation of

T-cell functions, including those of effector CD8+

T cells. In addition, this protein can also promote the differentiation of CD4+ T cells into T regulatory cells. PDCD1 is expressed in many types of tumors including melanomas, and has

demonstrated to play a role in anti-tumor immunity. Moreover, this protein has been shown to be involved in safeguarding against

autoimmunity, however, it can also contribute to the inhibition of effective anti-tumor and antimicrobial immunity. [provided by RefSeq, Aug

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Usage Research use only Conjugate Unconjugated





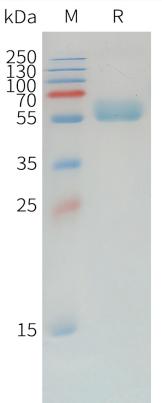


Figure 1. Canine PD-1 Protein, mFc Tag on SDS-PAGE under reducing condition.

Canine PD-1, mFc Tagged protein ELISA

0.2 μg of Canine PD-1, mFc tagged protein per well

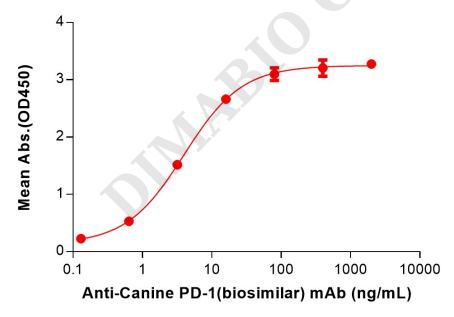


Figure 2. ELISA plate pre-coated by 2 μ g/mL (100 μ L/well) Canine PD-1 Protein, mFc Tag (PME-D100006) can bind Anti-Canine PD-1(INTERVET 4F12) mAb (BME100202) in a linear range of 0.64–80 ng/mL.

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Canine PD-1, mFc Tagged protein ELISA

0.2 μg of Canine PD-1, mFc tagged protein per well

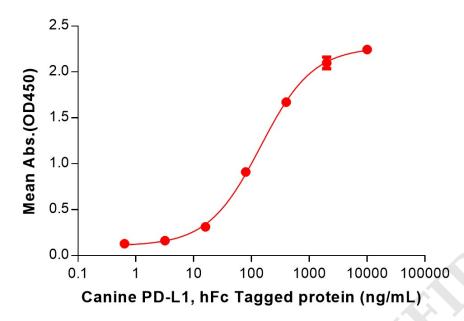


Figure 3. ELISA plate pre-coated by 2 μ g/mL (100 μ L/well) Canine PD-1 Protein, mFc Tag (PME-D100006) can bind Canine PD-L1 Protein, hFc Tag (PME-D100009) in a linear range of 16–2000 ng/mL.

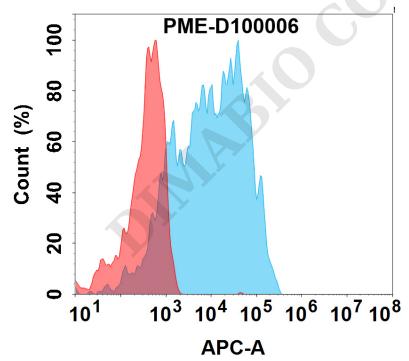


Figure 4. Flow cytometry analysis with $1\mu g/mL$ Canine PD-1 Protein, mFc Tag(PME-D100006) on HEK293 cells transfected with Canine PD-L1 protein (Blue histogram) or HEK293 transfected with irrelevant protein (Red histogram).

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