PRODUCT INFORMATION

Target	PD-1
Synonyms	CD279, PD-1, PD1, SLEB2, hPD-1, hPD-l, hSLE1
Description	Recombinant Canine PD-1 protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	NP_001301026.1
Expression Host	HEK293
Tag	C-Human Fc tag
Molecular Characterization	PD-1(Leu25-Gly168) hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 42.3 kDa after removal of the signal peptide. The apparent molecular mass of dPD-1-hFc is approximately 55-70 kDa due to glycosylation.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
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.
Background	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 anti-microbial immunity. [provided by RefSeq, Aug 2020]
Usage	Research use only
Conjugate	Unconjugated

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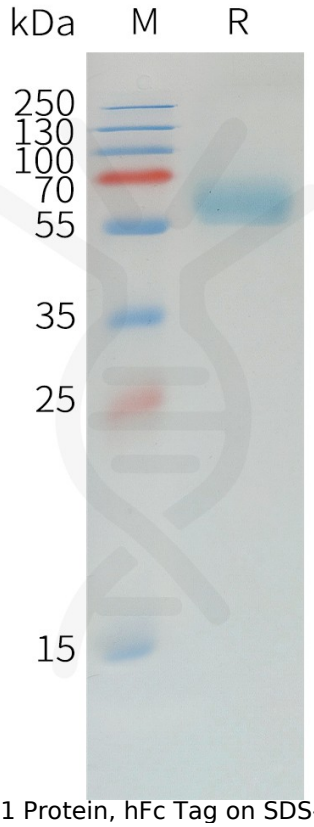

Figure 1. Canine PD-1 Protein, hFc Tag on SDS-PAGE under reducing condition.

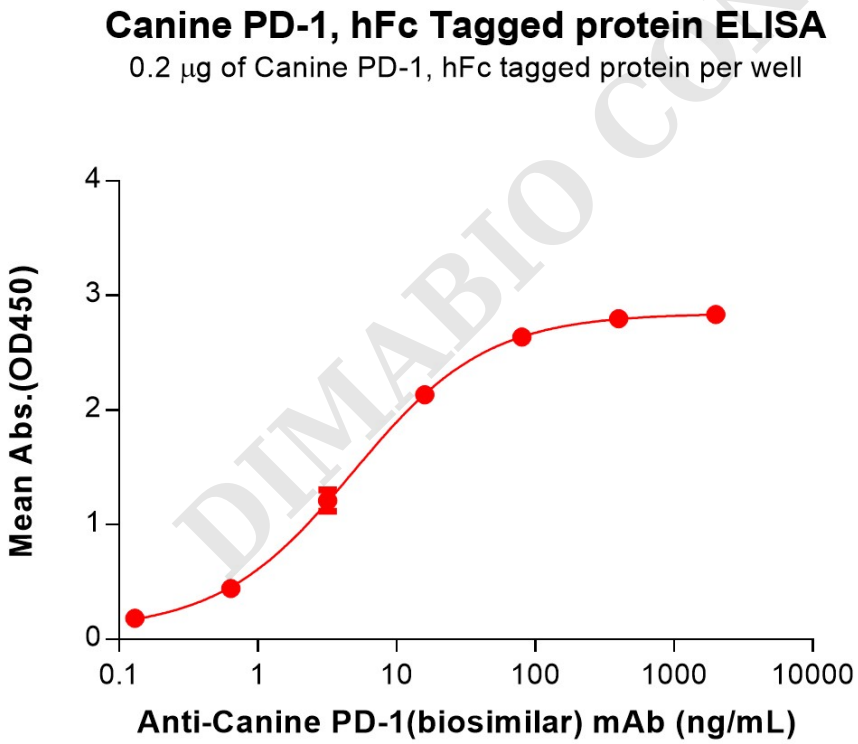

Figure 2. ELISA plate pre-coated by 2 μg/mL (100 μL/well) Canine PD-1 Protein, hFc Tag (PME-D100008) can bind Anti-Canine PD-1(INTERVET 4F12) mAb (BME100202) in a linear range of 0.64–80 ng/mL.

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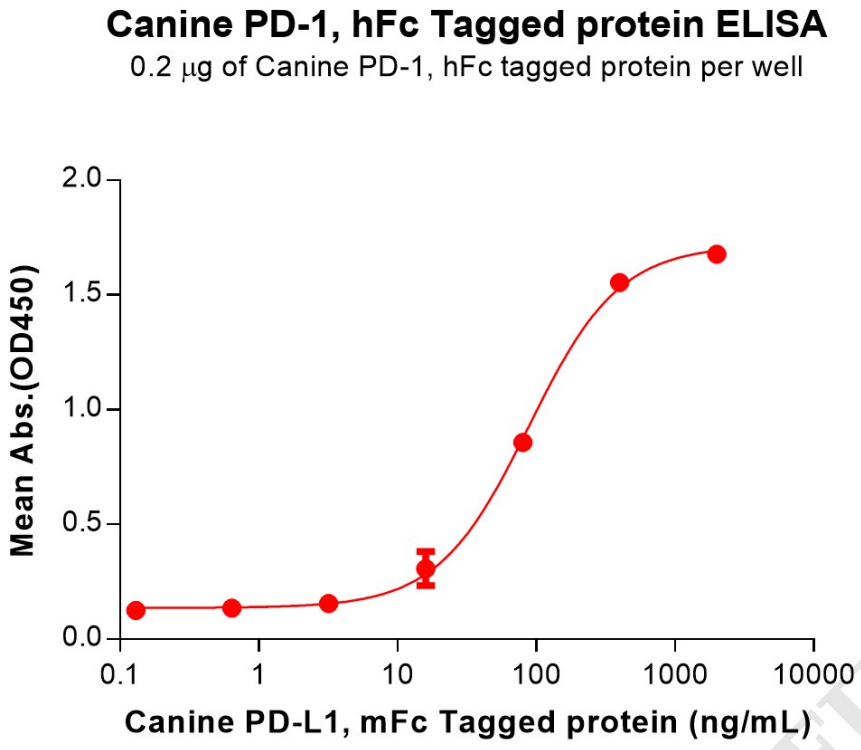

Figure 3. ELISA plate pre-coated by 2 μg/mL (100 μL/well) Canine PD-1 Protein, hFc Tag (PME-D100008) can bind Canine PD-L1 Protein, mFc Tag (PME-D100007) in a linear range of 16–400 ng/mL.

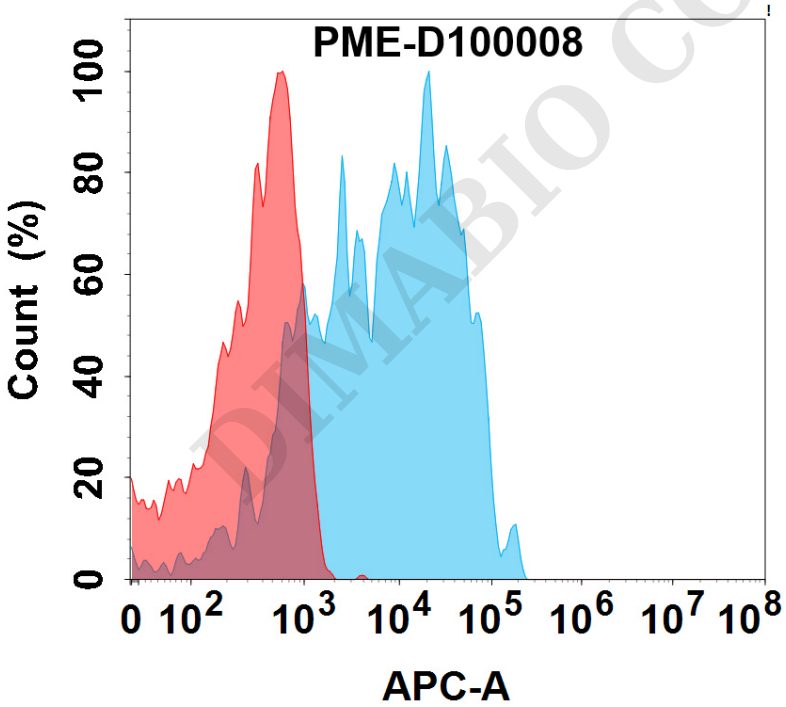

Figure 4. Flow cytometry analysis with 1μg/mL Canine PD-1 Protein, hFc Tag(PME-D100008) on HEK293 cells transfected with Canine PD-L1 protein (Blue histogram) or HEK293 transfected with irrelevant protein (Red histogram).

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