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32-18514: Canine PD-1 Protein, mFc Tag

Uniprot ID : NP_001301026.1
Alternative Name : CD279, PD-1, PD1, SLEB2, hPD-1, hPD-l, hSLE1

Description

Description : Recombinant Canine PD-1 protein with C-terminal mouse Fc tag
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.
Molecular Characterization: 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.
Tag :C-Mouse Fc tag

Product Info

Amount :	50 μg / 100 μg
Purification :	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Content :	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization.
Storage condition :	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.

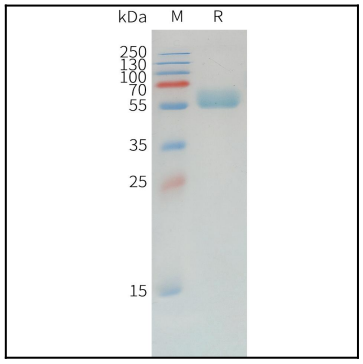


Figure 1. Canine PD-1 Protein, mFc Tag on SDS-PAGE under reducing condition.

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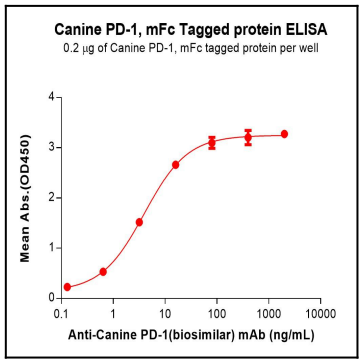


Figure 2. ELISA plate pre-coated by 2 Î¼g/mL (100 Î¼L/well) Canine PD-1 Protein, mFc Tag can bind Anti-Canine PD-1(INTERVET 4F12) mAb in a linear range of 0.64-80 ng/mL.

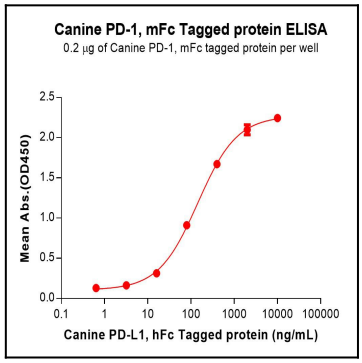


Figure 3. ELISA plate pre-coated by 2 Î¼g/mL (100 Î¼L/well) Canine PD-1 Protein, mFc Tag can bind Canine PD-L1 Protein, hFc Tag in a linear range of 16-2000 ng/mL.

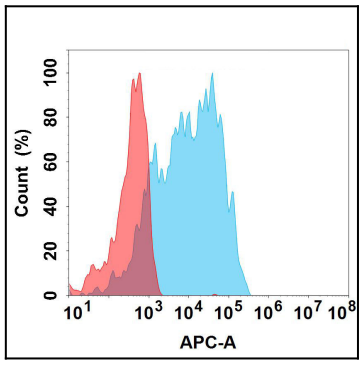


Figure 4. Flow cytometry analysis with 1Î¼g/mL Canine PD-1 Protein, mFc Tag on Expi293 cells transfected with Canine PD-L1 protein (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).

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