PRODUCT INFORMATION

Target	PDL1
Synonyms	B7-H, B7H1, CD274, PDCD1L1, PDCD1LG1, PDL1, hPD-L1
Description	Recombinant Canine PD-L1 protein with C-terminal mouse Fc tag
Delivery	In Stock
Uniprot ID	NP_001278901.1
Expression Host	HEK293
Tag	C-Mouse Fc tag
Molecular Characterization	PD-L1(Phe19-His238) mFc(Pro99-Lys330)
Molecular Weight	The protein has a predicted molecular mass of 51.2 kDa after removal of the signal peptide.
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	This gene encodes an immune inhibitory receptor ligand that is expressed by hematopoietic and non-hematopoietic cells, such as T cells and B cells and various types of tumor cells. The encoded protein is a type I transmembrane protein that has immunoglobulin V-like and C-like domains. Interaction of this ligand with its receptor inhibits T-cell activation and cytokine production. During infection or inflammation of normal tissue, this interaction is important for preventing autoimmunity by maintaining homeostasis of the immune response. In tumor microenvironments, this interaction provides an immune escape for tumor cells through cytotoxic T-cell inactivation. Expression of this gene in tumor cells is considered to be prognostic in many types of human malignancies, including colon cancer and renal cell carcinoma. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]
Usage	Research use only
Conjugate	Unconjugated

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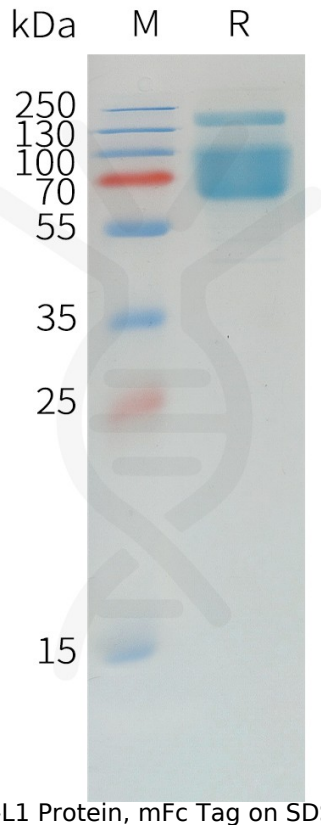


Figure 1. Canine PD-L1 Protein, mFc Tag on SDS-PAGE under reducing condition.

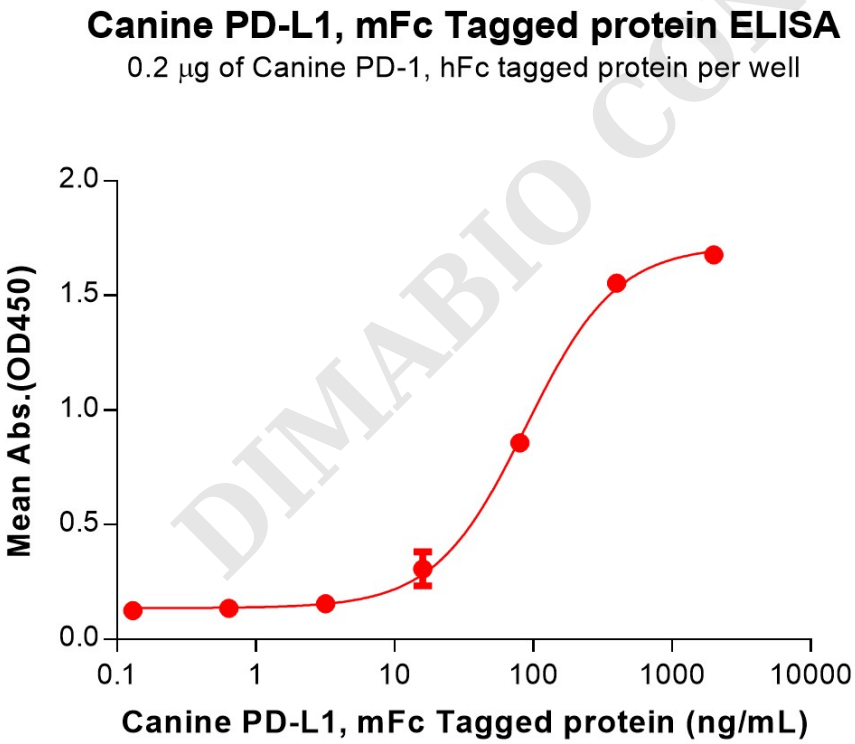


Figure 2. ELISA plate pre-coated by 2 μg/mL (100 μL/well) Canine PD-1 Protein, hFc Tag (PME-D100008) can bind Canine PD-L1 Protein, mFc Tag (PME-D100007) in a linear range of 16–400 ng/mL.

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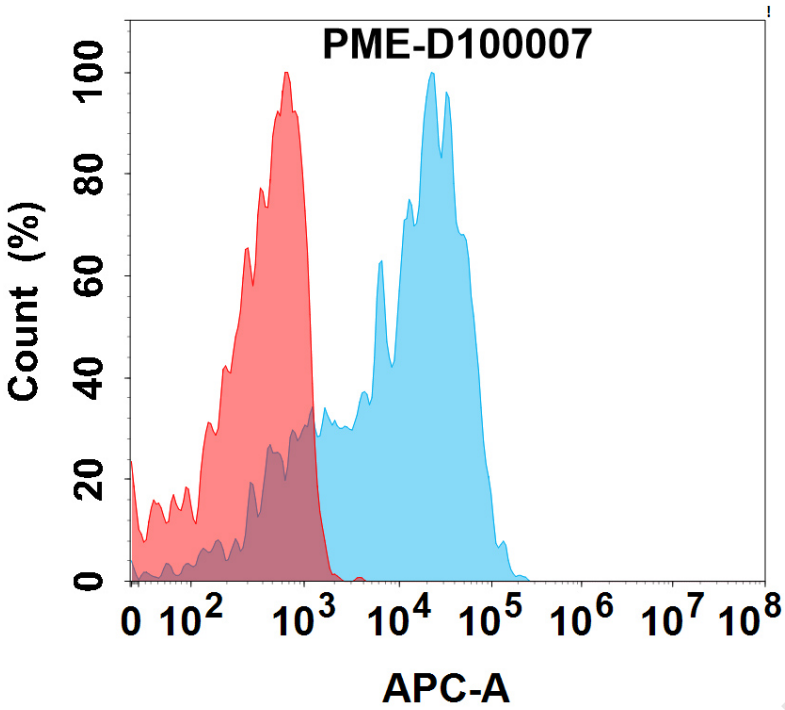


Figure 3. Flow cytometry analysis with 1μg/mL Canine PD-L1 Protein, mFc Tag(PME-D100007) on HEK293 cells transfected with Canine PD-1 protein (Blue histogram) or HEK293 transfected with irrelevant protein (Red histogram).

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