

Active Recombinant Feline CD274 Protein, Fc-tagged

Cat. No. CD274-11137F **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Feline PD-L1 Protein, Fc Tag is expressed from human 293 cells (HEK293). It contains AA Phe 19 - His 239 (Accession # M3WAP8). This protein carries a human IgG1 Fc tag at the C-terminus. Predicted N-terminus: Phe 19
Species	Feline
Source	HEK293
ProteinLength	19-239 aa
Description	Programmed cell death 1 ligand 1 (PDL1) is also known as B7-H, B7H1, MGC142294, MGC142296, PD-L1, PDCD1L1 and PDCD1LG1, which is a member of the growing B7 family of immune molecules and is involved in the regulation of cellular and humoral immune responses. PDL1 is a cell surface immunoglobulin superfamily with two Ig-like domains within the extracellular region and a short cytoplasmic domain. This protein is broadly expressed in the majority of peripheral tissues as well as hematopoietic cells. Interaction between PDL1 and its receptors belonging to the CD28 family of molecules provide both stimulatory and inhibitory signals in regulating T cell activation and tolerance. PDL1 may inhibit ongoing T-cell responses by inducing apoptosis and arresting cell-cycle progression.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Biotinylated Feline PD-1 Protein, His, Avitag at 1 µg/mL (100 µL/well) on streptavidin precoated (0.5

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	µg/well) plate can bind Feline PD-L1 Protein, Fc Tag with a linear range of 0.2-2 ng/mL.
Molecular Mass	The protein has a calculated MW of 51.5 kDa. The protein migrates as 55-65 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 0.1 EU/µg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE. >95% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CD274 CD274 molecule [<i>Felis catus</i> (domestic cat)]
Official Symbol	CD274
Synonyms	CD274; CD274 molecule; CD274 antigen, PDCD1LG1, programmed cell death 1 ligand 1; programmed cell death 1 ligand 1; B7 homolog 1; B7 H; B7 H1; B7H1; PD L1; PDL1; CD274 antigen; PDCD1 ligand 1; programmed death ligand 1; B7-H; PD-L1; PDCD1L1; PDCD1LG1; MGC142294; MGC142296;

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Gene ID	100127110
mRNA Refseq	XM_006939039
Protein Refseq	XP_006939101
UniProt ID	A0ABI7WRQ0

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