

PD-L2 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P72493
Synonyms:	Programmed cell death 1 ligand 2; Pdcd1lg2; PD-1 ligand 2; PD-L2; PDCD1 ligand 2; B7-DC; CD273
Species:	Cynomolgus
Source:	HEK293
Accession:	A4GW30 (L20-P219)
Gene ID:	716003
Molecular Weight:	30-40 kDa

PROPERTIES

AA Sequence	<pre> L F T V T V P K E L Y I I E H G S N A T L E C N F D T G S H V N L G A I T A S L Q K V E N D T S P H R E R A T L L E E Q L S L G K A L F H I P Q V Q V R D E G Q Y Q C I I I Y G V A W D Y K Y L T L K V K A S Y R K I N T H I L K V P E T D E V E L T C Q A T G Y P L A E V S W P N I S V P A N T S H S R T P E G L Y Q V T S V L R L K P H P G R N F S C V F W N A Q V R E L T L A S I D L Q S Q I E P R T H P </pre>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>Programmed cell death 1 ligand 2 is a cell surface receptor also known as PD-L2, B7-DC or CD273. PDCD1LG2 is an immune checkpoint receptor ligand that plays a negative regulatory role in adaptive immune response. PDCD1LG2 binds to PD-1 to activate pathways that inhibit TCR/ BCR-mediated immune cell activation. PDCD1LG2 plays an important role in immune tolerance and autoimmunity, and both PD-L1 and PDCD1LG2 can inhibit T cell proliferation and inflammatory cytokine production. Blocking PDCD1LG2 exacerbates experimental autoimmune encephalomyelitis. PDCD1LG2 triggers IL-12 production in mouse dendritic cells, leading to T-cell activation. Treatment with PDCD1LG2 Ig led to a proliferation of T helper cells. The expression of PDCD1LG2 on mouse tumor cells inhibits cytotoxic T cell-mediated immune responses and</p>
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can be used as a biomarker or prognostic indicator^{[1][2][3][4][5]}.

Caution: Product has not been fully validated for medical applications. For research use only.

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