

PD-L1 Protein, Cynomolgus (HEK293, Fc)

Cat. No.:	HY-P71008
Synonyms:	B7-H; B7H1; B7-H1; B7H1PDCD1L1; CD274 antigenMGC142294; CD274 molecule; CD274; PDCD1L1; PDCD1LG1; PDL1; PD-L1; PD-L1B7 homolog 1; PDL1PDCD1 ligand 1; programmed cell death 1 ligand 1; Programmed death ligand 1
Species:	Cynomolgus
Source:	HEK293
Accession:	G7PSE7 (F19-T239)
Gene ID:	102145573
Molecular Weight:	Approximately 73.0 kDa

PROPERTIES

AA Sequence	<p> FTVTVPKDL Y VVEYGSNMT I ECKFPVEKQL DLTS L I VYWE MEDKNI IQFV HGEEDLK VQH SNYRQRAQL L KDQL S LGNAA LRITDVKLQD AGVYRCM I S Y GGADYKRITV KVNAPYNKIN QRILVVDPVT SEHELT CQAE GYPKAEV IWT SSDHQVLSGK TTTTNSKREE KLLNVTSTLR INTTANE I FY CIFRRLDPEE NHTAELV IPE LPLALPPNER T </p>
Biological Activity	<p>1.Immobilized Cynomolgus PD-L1-Fc at 2 µg/mL (100 µL/well) can bind Anti-Human PDL1 mAb.The ED₅₀ of Anti-Human PDL1 mAb is 8.15 ng/mL. (Regularly tested)</p> <p>2.Loaded Biotinylated Human PD-1-His-Avi on SA Biosensor, can bind Cynomolgus PD-L1-Fc with an affinity constant of 14.1 nM as determined in BLI assay. (Regularly tested)</p>
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	CD274 molecule is also known as programmed death ligand 1 (PD-L1), and PD-L1 binds to the inhibitory checkpoint
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molecule PD-1 and interacts with phosphatase (SHP-1 or SHP-2) through the immune receptor tyrosinyl switch Motif (ITSM) to transmit inhibitory signals. The binding of PD-L1 to its receptor PD-1 on T cells transmits signals that inhibit TCR-mediated IL-2 production and T cell proliferation. By inhibiting ZAP70 phosphorylation and its association with CD3 ζ , PD-1 signaling attenuates PKC- θ -activated ring phosphorylation (caused by TCR signaling), which is required for the activation of the transcription factors NF- κ B and AP-1 and the production of IL-2. PD-L1 binding to PD-1 is also induced by the upregulation of the E3 ubiquitin ligase CBL-B. PD-L1 is involved in the PI3K/JAK/STAT signaling pathway to promote tumor occurrence^{[1][2][3][4]}.

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

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