

Recombinant Human PDCD1LG2 protein, Fc-tagged (HPLC verified)

Cat. No. PDCD1LG2-220H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PDCD1LG2 (Leu20-Pro219) protein was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Leu20-Pro219
Description	Programmed cell death 1 ligand 2 (PD-L2 or PDCD1 ligand 2) is also known as Butyrophilin B7-DC, CD antigen CD273, which belongs to the immunoglobulin superfamily or BTN/MOG family. The expression of PD-L2 is up-regulated by IFNG/IFN-gamma stimulation in monocytes and induced on dendritic cells grown from peripheral blood mononuclear cells with CSF2 and IL-4. PD-L2 Involved in the costimulatory signal, essential for T-cell proliferation and IFNG production in a PDCD1-independent manner. PD-L2 interaction with PDCD1 inhibits T-cell proliferation by blocking cell cycle progression and cytokine production.
Predicted N Terminal	Leu20
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 49.2 kDa. The protein migrates as 60-70 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

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Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. 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.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	PDCD1LG2
Official Symbol	PDCD1LG2
Synonyms	PDCD1LG2; programmed cell death 1 ligand 2; B7 dendritic cell molecule; B7 DC; bA574F11.2; Btdc; CD273; PD L2; PDL2; B7-DC; PD-1 ligand 2; PD-1-ligand 2; PDCD1 ligand 2; butyrophilin B7-DC; programmed death ligand 2; B7DC; PD-L2; PDCD1L2; MGC142238; MGC142240
Gene ID	80380
mRNA Refseq	NM_025239
Protein Refseq	NP_079515

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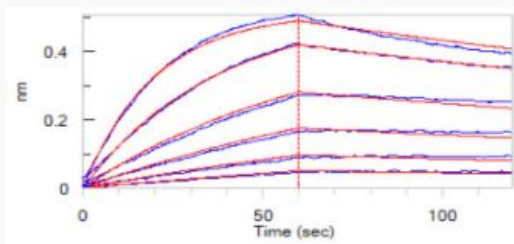
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MIM 605723

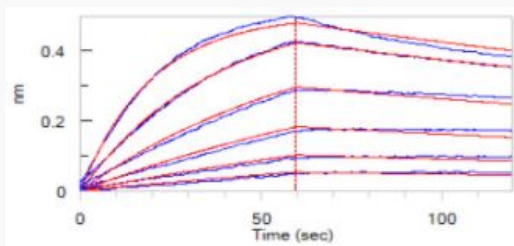
UniProt ID Q9BQ51

Bioactivity-BLI



Loaded Human PD-1, His Tag (HPLC verified) on HIS1K Biosensor, can bind Human PD-L2, Fc Tag (HPLC verified) with an affinity constant of 16.3 nM as determined in BLI assay (ForteBio Octet Red96e) (QC tested).

Bioactivity-BLI of PDCD1LG2-220H



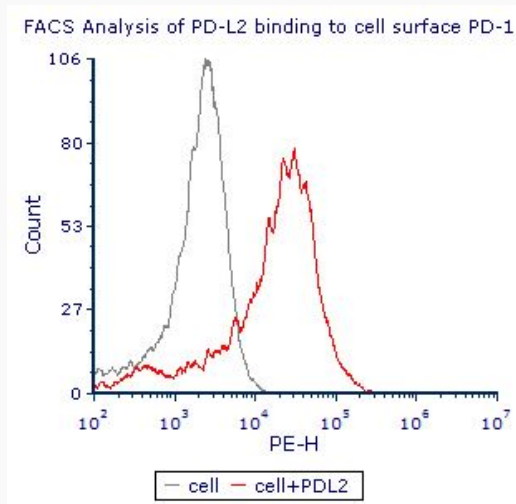
Loaded Human PD-1, His Tag, low endotoxin (HPLC-verified) on HIS1K Biosensor, can bind Human PD-L2, Fc Tag (HPLC-verified) with an affinity constant of 15.7 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

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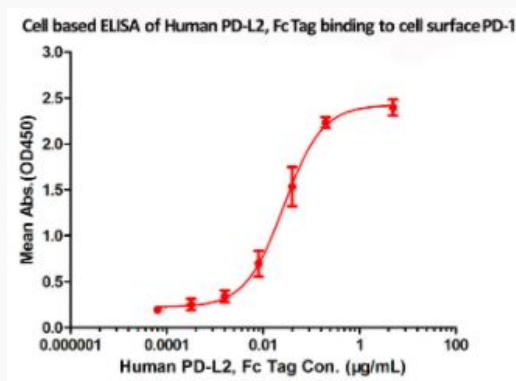
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Bioactivity-FACS of PDCD1LG2-220H



Flow Cytometry assay shows that recombinant Human PD-L2, Fc Tag (HPLC verified) can bind to 293 cell overexpressing human PD-1. The concentration of PD-L2 used is 1 µg/mL (Routinely tested).

Bioactivity-Cell based assay of PDCD1LG2-220H



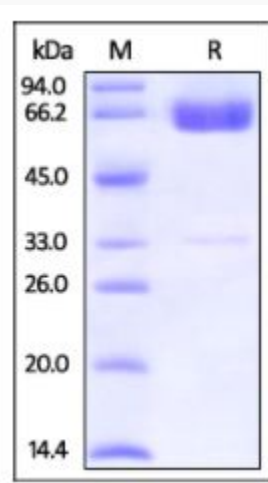
Immobilized cell surface PD-1 (5x10⁴ of cells per well) can bind Human PD-L2, Fc Tag (HPLC verified) with an EC₅₀ of 0.018 µg/mL (Routinely tested).

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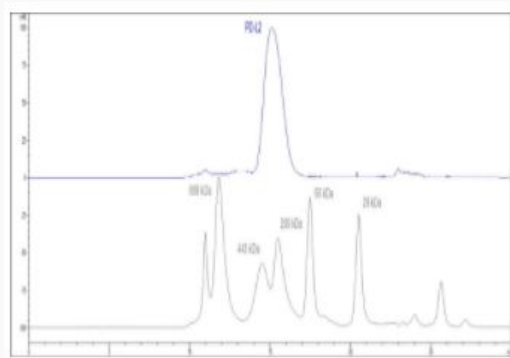
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SDS-PAGE of PDCD1LG2-220H



Human PD-L2, Fc Tag (HPLC verified) on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-HPLC of PDCD1LG2-220H



The purity of Human PD-L2, Fc Tag (HPLC verified) was greater than 90% as determined by SEC-HPLC.

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