

Recombinant Mouse Pdcd1lg2 protein, mouse IgG2a Fc-tagged, low endotoxin

Cat. No. Pdcd1lg2-113M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Pdcd1lg2 protein (Leu20-Arg219)(low endotoxin), fused to Mouse IgG2a Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Mouse
Source	HEK293
ProteinLength	200
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.
Form	Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 49.6 kDa. As a result of glycosylation, the protein migrates as 60-70 kDa under reducing (R) condition, and 140 kDa under non-reducing (NR) condition (SDS-PAGE).

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Endotoxin	Less than 0.1 EU per ug 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 centigrade 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

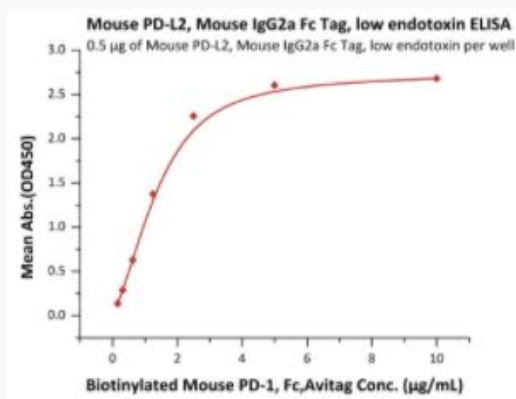
Gene Name	Pdccl1g2
Official Symbol	Pdccl1g2
Synonyms	PDCD1LG2; programmed cell death 1 ligand 2; PD-1 ligand 2; PDCD1 ligand 2; butyrophilin B7-DC; butyrophilin-like protein; programmed death ligand 2; Btdc; B7-DC; PD-L2; F730015O22Rik; MGC124039; MGC124040
Gene ID	58205
mRNA Refseq	NM_021396
Protein Refseq	NP_067371
UniProt ID	Q3U304

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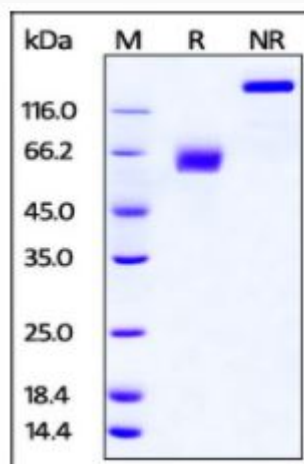
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Bioactivity-ELISA of Pdcd1lg2-113M



Immobilized Mouse PD-L2, Mouse IgG2a Fc Tag, low endotoxin at 5 µg/mL (100 µL/well) can bind Biotinylated Mouse PD-1, Fc,Avitag with a linear range of 0.156-1.25 µg/mL (Routinely tested).

SDS-PAGE of Pdcd1lg2-113M



Mouse PD-L2, mouse IgG2a Fc tag on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.