Recombinant Mouse Pdcd1lg2 Protein, hFc-tagged, Alexa Fluor 647 conjugated

Cat. No. Pdcd1lg2-7000MAF647 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Alexa Fluor 647 conjugated recombinant Mouse Pdcd1lg2 (Leu20-Pro219) protein was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Mouse
Source	HEK293
ProteinLength	Leu20-Arg219
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
Molecular Mass	The protein has a calculated MW of 49.2 kDa. As a result of glycosylation, the protein migrates as 60-70 kDa under reducing (R) condition, and 120-140 kDa under non-reducing (NR) condition (SDS-PAGE).

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N-terminal Sequence Analysis	Leu 20
Endotoxin	< 1.0 EU/ μg by the LAL method.
Purity	> 95 % as determined by SDS-PAGE
Characteristic	Disulfide-linked homodimer Labeled with Alexa Fluor 647 via amines Excitation = 650 nm Emission = 668 nm
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.
Storage Buffer	Lyophilized from 0.22 μm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
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.
Conjugation	Alexa Fluor 647

GENE INFORMATION

Gene Name	Pdcd1lg2

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Official Symbol	Pdcd1lg2
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	Q9WUL5

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