

Recombinant Monkey CD274 Protein, hFc-tagged, Alexa Fluor 647 conjugated

Cat. No. CD274-167CAF647 Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Cynomolgus/Rhesus macaque CD274 Protein (19-238aa), was expressed in human 293 cells (HEK293) with C-terminal human IgG1 Fc tag and Alexa Fluor 647 conjugate.
Species	Monkey
Source	HEK293
ProteinLength	19-238 aa
Description	Programmed cell death 1 ligand 1 (PDL1) is also known as B7-H, B7H1, MGC142294, MGC142296, PD-L1, PDCD1L1 and PDCD1LG1, which is a member of the growing B7 family of immune molecules and is involved in the regulation of cellular and humoral immune responses. PDL1 is a cell surface immunoglobulin superfamily with two Ig-like domains within the extracellular region and a short cytoplasmic domain. This protein is broadly expressed in the majority of peripheral tissues as well as hematopoietic cells. Interaction between PDL1 and its receptors belonging to the CD28 family of molecules provide both stimulatory and inhibitory signals in regulating T cell activation and tolerance. PDL1 may inhibit ongoing T-cell responses by inducing apoptosis and arresting cell-cycle progression.
Form	Lyophilized
Molecular Mass	The protein has a calculated MW of 51.8 kDa. The protein migrates as 60-70 kDa

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	under reducing (R) condition (SDS-PAGE) due to glycosylation.
N-terminal Sequence Analysis	Phe 19
Endotoxin	< 1.0 EU/ µg by the LAL method.
Purity	> 90 % 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 PBS, pH7.4, 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

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Gene Name	CD274
Official Symbol	CD274
Synonyms	CD274; CD274 molecule; CD274 antigen , PDCD1LG1, programmed cell death 1 ligand 1; programmed cell death 1 ligand 1; B7 homolog 1; B7 H; B7 H1; B7H1; PD L1; PDL1; CD274 antigen; PDCD1 ligand 1; programmed death ligand 1; B7-H; PD-L1; PDCD1L1; PDCD1LG1; MGC142294; MGC142296
Gene ID	102145573
mRNA Refseq	XM_005581779
Protein Refseq	XP_005581836
UniProt ID	G7PSE7

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