

Recombinant Human CD274 Protein, mouse IgG1 mFc-tagged, low endotoxin (HPLC-verified), FITC conjugated

Cat. No. CD274-2146HF Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human CD274 Protein (19-238aa), was expressed in human 293 cells (HEK293) with C-terminal Mouse IgG1 Fc tag, FITC conjugate (low endotoxin, HPLC-verified).

Species Human

Source HEK293

ProteinLength 19-238 aa

Description Programmed cell death 1 ligand 1 (PD-L1) is also known as cluster of differentiation (CD274) or B7 homolog 1 (B7-H1), is a member of the growing B7 family of immune molecules and is involved in the regulation of cellular and humoral immune responses. B7-H1 is a cell surface immunoglobulin superfamily with two Ig-like domains within the extracellular region and a short cytoplasmic domain. PD-L1 is highly expressed in the heart, skeletal muscle, placenta and lung and weakly expressed in the thymus, spleen, kidney and liver. PD-L1 is expressed on activated T-cells, B-cells, dendritic cells, keratinocytes and monocytes. PD-L1 is up-regulated on T- and B-cells, dendritic cells, keratinocytes and monocytes after LPS and IFNG activation and up-regulated in B-cells activated by surface Ig cross-linking. PD-L1 involve in the costimulatory signal, essential for T-cell proliferation and production of IL10 and IFNG, in an IL2-dependent and a PDCD1-independent manner.

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Form	Lyophilized
Molecular Mass	The protein has a calculated MW of 51.6 kDa. As a result of glycosylation, the protein migrates as 65-85 kDa under reducing (R) condition, and 130-170 kDa under non-reducing (NR) condition (SDS-PAGE).
Endotoxin	< 0.1 EU/ µg by the LAL method.
Purity	> 92 % as determined by SDS-PAGE
Characteristic	Disulfide-linked homodimer Labeled with FITC via amines Excitation source: 488 nm spectral line, argon-ion laser Excitation Wavelength: 488 nm Emission Wavelength: 535 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	FITC

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GENE INFORMATION**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** 29126**mRNA Refseq** NM_014143**Protein Refseq** NP_054862**MIM** 605402**UniProt ID** Q9NZQ7 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA