

# Recombinant Mouse Cd274 Protein, His-tagged, Alexa Fluor 488 conjugated

**Cat. No.** Cd274-2275MAF488    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

Recombinant Mouse Cd274 Protein (19-238aa), was expressed in human 293 cells (HEK293) with C-terminal His tag and Alexa Fluor 488 conjugate.

### Species

Mouse

### 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.

### Form

Lyophilized

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<b>Molecular Mass</b>	The protein has a calculated MW of 26.6 kDa. The protein migrates as 40-50 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
<b>N-terminal Sequence Analysis</b>	Phe 19
<b>Endotoxin</b>	< 1.0 EU/ µg by the LAL method.
<b>Purity</b>	> 95 % as determined by SDS-PAGE
<b>Characteristic</b>	Disulfide-linked homodimer Labeled with Alexa Fluor 488 via amines Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
<b>Storage</b>	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.
<b>Storage Buffer</b>	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
<b>Reconstitution</b>	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.
<b>Conjugation</b>	Alexa Fluor 488

## GENE INFORMATION

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<b>Gene Name</b>	<a href="#">Cd274</a>
<b>Official Symbol</b>	<a href="#">Cd274</a>
<b>Synonyms</b>	CD274; CD274 antigen; programmed cell death 1 ligand 1; B7 homolog 1; PDCD1 ligand 1; programmed death ligand 1; B7h1; Pdl1; Pdc11l1; Pdc11lg1; A530045L16Rik
<b>Gene ID</b>	<a href="#">60533</a>
<b>mRNA Refseq</b>	<a href="#">NM_021893</a>
<b>Protein Refseq</b>	<a href="#">NP_068693</a>
<b>UniProt ID</b>	<a href="#">Q9EP73</a>

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