

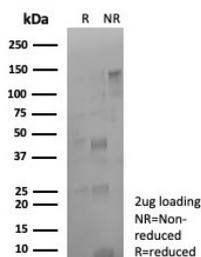
CD274 Antibody Recombinant Mouse MAb rPDL1/8825 / PD-L1 / B7-H1 [clone rPDL1/8825] (V5285)

Catalog No.	Formulation	Size
V5285-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5285-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5285SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Recombinant MOUSE MONOCLONAL

[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rPDL1/8825
Purity	Protein A/G affinity
UniProt	Q9NZQ7
Localization	Cell Surface, Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This CD274 antibody is available for research use only.



SDS-PAGE analysis of purified, BSA-free CD274 Antibody Recombinant Mouse MAb rPDL1/8825 as confirmation of integrity and purity.

Description

CD274, commonly known as Programmed death-ligand 1 (PD-L1) or B7-H1, is a key immune checkpoint ligand that

regulates T cell activity and immune tolerance. CD274 Antibody Recombinant Mouse MAb rPDL1/8825 targets this transmembrane immunoregulatory protein encoded by the CD274 gene. PD-L1 is a member of the B7 family of immune regulatory molecules and is widely studied for its role in modulating immune responses through interaction with the inhibitory receptor PD-1 expressed on activated T lymphocytes. Because of this function, CD274 antibody detection is frequently used in research examining immune checkpoint signaling, tumor immune evasion, and immune regulation within epithelial tissues and immune cell populations.

PD-L1 functions as a ligand for the programmed cell death protein 1 receptor (PD-1), encoded by the PDCD1 gene. Engagement of PD-L1 with PD-1 transmits inhibitory signals that reduce T cell proliferation, cytokine production, and cytotoxic activity. This immune checkpoint pathway plays an essential role in maintaining peripheral immune tolerance and preventing excessive immune activation. However, tumor cells often exploit this pathway by increasing PD-L1 expression on their surface, which suppresses anti-tumor immune responses and allows malignant cells to evade immune surveillance. Because of this mechanism, PD-L1 antibody reagents are widely used in studies investigating tumor immunology, immune checkpoint biology, and inflammatory signaling pathways.

The CD274 gene is located on chromosome 9p24.1 and encodes a type I transmembrane glycoprotein containing extracellular immunoglobulin-like domains typical of B7 family members. Under physiological conditions, PD-L1 expression can be detected on antigen-presenting cells such as dendritic cells and macrophages, as well as on certain epithelial and endothelial cell populations. Expression can be strongly induced by inflammatory cytokines, particularly interferon-gamma, which activates transcriptional pathways that increase PD-L1 production during immune responses. In many cancers, PD-L1 expression becomes elevated in tumor epithelial cells and tumor-associated immune cells, linking CD274 expression to regulation of immune responses within the tumor microenvironment.

Several strong literature synonyms are associated with this immune checkpoint ligand, including PD-L1, Programmed death-ligand 1, B7-H1, and PDCD1 ligand 1. These established names help ensure consistent recognition of this CD274 immune checkpoint protein across immunology, oncology, and pathology research. In tissue-based studies, PD-L1 antibody staining is typically observed as membranous signal in epithelial cells and immune cell populations where the protein functions as a cell surface ligand regulating T cell responses. Clone rPDL1/8825 is a recombinant mouse monoclonal antibody designed to recognize PD-L1 protein expression in relevant experimental systems. This CD274 antibody is available from NSJ Bioreagents for investigators studying immune checkpoint signaling, tumor immunology, and immune regulation.

This PD-L1 antibody is part of a [broader PD-L1 antibody panel](#) offered by NSJ Bioreagents.

Application Notes

Optimal dilution of the CD274 Antibody recombinant mouse mAb rPDL1/8825 should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 190-290) from the human protein was used as the immunogen for the CD274 antibody.

Storage

Aliquot the CD274 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

