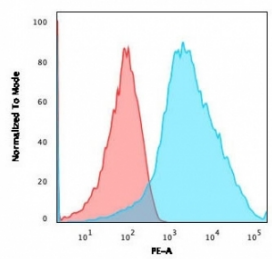
PD-L1 PE Antibody / CD274 Flow Cytometry Antibody [clone PDL1/2746] (V3955PE)

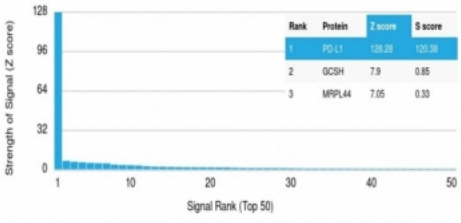
Catalog No.	Formulation	Size
V3955PE-100T	500 ul at 0.1 mg/ml with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 Tests

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	PE Conjugate
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	PDL1/2746
Purity	Protein G affinity chromatography
UniProt	Q9NZQ7
Localization	Cell surface, cytoplasmic
Applications	Flow cytometry: 1-2ug/million cells in 0.1ml Immunofluorescence: 1-2ug/ml
Limitations	This PD-L1 PE Antibody / CD274 Flow Cytometry Antibody is available for research use only.



PD-L1 PE Antibody Jurkat Cells FACS. Flow cytometry analysis of PD-L1 (CD274) expression in human Jurkat cells using PE-conjugated clone PDL1/2746. The PD-L1 antibody (blue) demonstrates a pronounced right-shifted population compared to isotype control (red), indicating specific detection of cell surface CD274. The bright PE signal provides enhanced fluorescence intensity, supporting clear separation of positive and negative populations and enabling accurate gating of PD-L1-expressing cells in flow cytometry assays.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using PD-L1 antibody (clone PDL1/2746). These results demonstrate the foremost specificity of the PDL1/2746 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

Programmed death-ligand 1 (CD274), commonly known as PD-L1, is a cell surface immune checkpoint protein that regulates T cell responses through interaction with PD-1 and plays a key role in tumor immune evasion. PD-L1 PE Antibody / CD274 Flow Cytometry Antibody is optimized for direct detection of PD-L1 expression in flow cytometry applications, enabling rapid and high-sensitivity analysis of cell surface expression without the need for secondary reagents. Its direct conjugation to a bright fluorophore supports high-resolution immune profiling in complex cell populations.

PD-L1 antibody, also referred to as CD274 antibody or B7-H1 antibody, enables detection of PD-L1 across tumor cells, antigen-presenting cells, and activated immune populations. Conjugation to phycoerythrin (PE), a high-intensity fluorophore with strong emission characteristics, provides enhanced signal brightness and improves resolution of PD-L1-positive populations. This increased sensitivity is particularly valuable when analyzing low or heterogeneous expression across immune cell subsets.

The direct labeling format eliminates the need for secondary antibodies, reducing assay time and minimizing background variability associated with multi-step detection systems. This streamlined workflow supports consistent and reproducible results, particularly in multicolor panel designs where minimizing cross-reactivity and signal overlap is critical. The strong fluorescence signal provided by PE allows clear separation of positive and negative populations, facilitating accurate gating and quantitative analysis of PD-L1 expression levels.

In flow cytometry studies, PD-L1 expression is often evaluated across multiple immune cell subsets within heterogeneous samples. The combination of high signal intensity and direct detection supports reliable identification of PD-L1-positive cells and enables detailed characterization of immune checkpoint expression across different cell populations. This is particularly relevant in studies of tumor-infiltrating immune cells and immune activation states.

This clone is supported by protein microarray specificity validation using a HuProt(TM) platform containing more than 19,000 full-length human proteins. Clone PDL1/2746 demonstrates highly selective binding to PD-L1 with strong signal separation from secondary targets, ensuring accurate detection and minimizing false-positive events in flow cytometry assays.

PD-L1 is a type I transmembrane protein localized to the cell surface, making it well suited for detection in live or fixed cell preparations. Its expression is inducible by inflammatory stimuli such as interferon-gamma, contributing to dynamic regulation across immune and tumor cell populations.

Overall, PD-L1 PE Antibody enables rapid, high-sensitivity detection of CD274 expression with strong fluorescence intensity and excellent population resolution. Its direct detection format and microarray-validated specificity support precise immune profiling and flow cytometry analysis in immunology and cancer research applications.

For additional reagents and information on CD274 signaling and tumor immune evasion, visit our microarray-validated PD-L1 Antibody / Tumor Microenvironment Immune Checkpoint Antibody page.

Application Notes

Optimal dilution of the PD-L1 PE Antibody / CD274 Flow Cytometry Antibody should be determined by the researcher.

Immunogen

A portion of amino acids 39-191 from the human protein was used as the immunogen for this PD-L1 antibody.

Storage

Store the PD-L1 antibody at 2-8oC, protected from light.

Alternate Names

CD274 antibody, PD-L1 antibody, B7-H1 antibody, Programmed death-ligand 1 antibody, PDCD1 ligand antibody

Copyright © NSJ Bioreagents. All rights reserved.