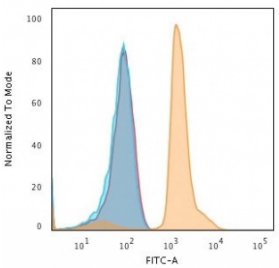
PD-L1 Antibody for FACS / CD274 Flow Cytometry Antibody [clone PDL1/2743] (V7823)

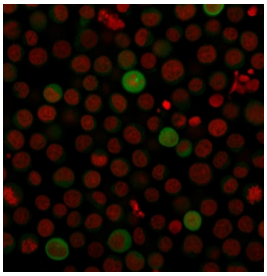
Catalog No.	Formulation	Size
V7823-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7823-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7823SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

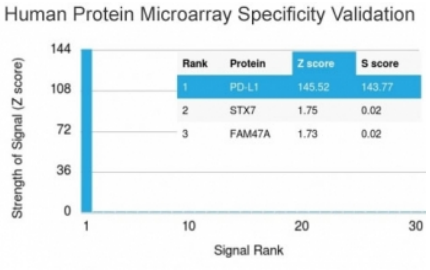
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	PDL1/2743
Purity	Protein G affinity chromatography
UniProt	Q9NZQ7
Localization	Cell surface, cytoplasm
Applications	ELISA: order BSA-free format for coating Flow cytometry: 1-2ug/ml Immunofluorescence: 1-2ug/ml
Limitations	This PD-L1 Antibody for FACS / CD274 Flow Cytometry Antibody is available for research use only.



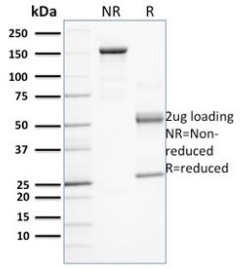
PD-L1 Antibody for FACS. Flow cytometry analysis of PD-L1 (CD274) expression in human Jurkat cells using mouse monoclonal clone PDL1/2743. The PD-L1 antibody (orange) demonstrates a clear right-shifted population compared to isotype control (red) and unstained cells (blue), indicating specific cell surface expression of CD274. The distinct separation between negative and positive populations supports accurate gating and reliable identification of PD-L1-expressing cells, consistent with high-specificity performance in flow cytometry assays.



Immunofluorescent staining of human Jurkat cells with PD-L1 antibody (clone PDL1/2743, green) and Reddot nuclear stain (red).



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using PD-L1 antibody (clone PDL1/2743). These results demonstrate the foremost specificity of the PDL1/2743 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.



SDS-PAGE analysis of purified, BSA-free PD-L1 antibody (clone PDL1/2743) as confirmation of integrity and purity.

Description

Programmed death-ligand 1 (CD274), commonly known as PD-L1, is a type I transmembrane immune checkpoint protein expressed on tumor cells and antigen-presenting cells that regulates T cell activation through interaction with PD-1. PD-L1 Antibody for FACS / CD274 Flow Cytometry Antibody is optimized for detection of PD-L1 on the cell surface, enabling high-resolution analysis of immune checkpoint expression across heterogeneous cell populations. Its role in tumor immune evasion and immune regulation makes PD-L1 a central target for flow cytometry-based studies of the tumor microenvironment and immune cell activation states.

PD-L1 antibody, also referred to as CD274 antibody or B7-H1 antibody, produces strong and well-defined cell surface staining in flow cytometry assays, allowing clear identification of PD-L1-positive cells. In FACS analysis, PD-L1 expression is detected on tumor cells, macrophages, dendritic cells, and activated lymphocyte populations. The antibody enables distinct separation of positive and negative populations, supporting precise gating and quantitative assessment of PD-L1 expression levels in mixed cell samples.

This clone is further distinguished by protein microarray specificity validation using a HuProt(TM) platform containing more than 19,000 full-length human proteins. Clone PDL1/2743 demonstrates highly selective binding to PD-L1 with a dominant signal and strong Z-score separation from all secondary targets, indicating minimal cross-reactivity. This high level of specificity is particularly critical in flow cytometry, where non-specific binding can lead to false-positive populations, reduced resolution, and inaccurate gating. The validated specificity profile supports confident interpretation of PD-L1-positive cell populations in complex samples.

In flow cytometry experiments, PD-L1 expression is typically evaluated as a right-shifted fluorescence signal relative to isotype or unstained controls. A clear and reproducible shift enables reliable discrimination of PD-L1-expressing cells and

supports downstream quantitative analysis, including assessment of expression intensity and population frequency. This is especially important in immune profiling studies where PD-L1 expression levels may vary across cell subsets or in response to cytokine stimulation.

PD-L1 expression is dynamically regulated and can be upregulated by inflammatory signals such as interferon-gamma, resulting in variable expression across cell types and experimental conditions. Its localization to the plasma membrane makes it well suited for detection in live or fixed cell preparations, further supporting its use in flow cytometry applications.

Overall, PD-L1 Antibody for FACS provides high-confidence, high-resolution detection of CD274 expression with strong cell surface staining, clear population separation, and minimal background. Supported by microarray specificity validation, this antibody enables accurate identification and quantification of PD-L1-positive cell populations in immunology and cancer research studies.

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 Antibody for FACS / 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 (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

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

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