

## PD-L1 / PDCD1LG1 / CD274 / B7-H1 (Cancer Immunotherapy Target) Antibody

Mouse Monoclonal Antibody [Clone PDL1/2746]

Catalog No	Format	Size
29126-MSM6-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
29126-MSM6-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
29126-MSM6-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

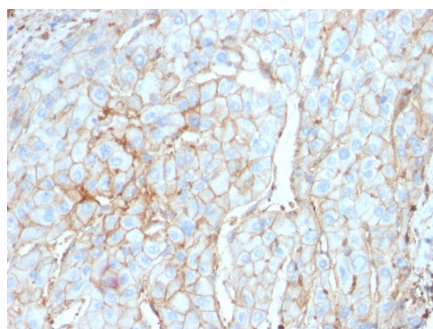
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

### Product Details

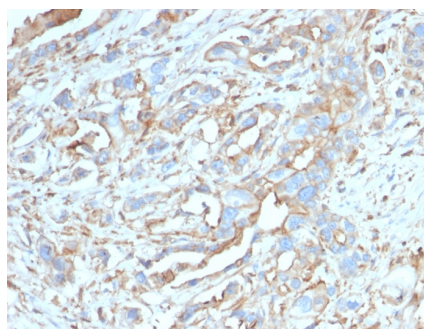
<b>Clone</b>	PDL1/2746
<b>Gene Name</b>	CD274
<b>Immunogen</b>	Recombinant fragment (around aa 39-191) of human CD274 (PD-L1) protein (exact sequence is proprietary)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG2b / Kappa
<b>Mol. Weight of Antigen</b>	37-50kDa
<b>Cellular Localization</b>	Cell membrane, Early endosome membrane, Endomembrane system, Recycling endosome membrane
<b>Species Reactivity</b>	Human, Mouse
<b>Positive Control</b>	Human heart, placenta, lung squamous cell carcinoma, cervical carcinoma or breast carcinoma. Jurkat, RAW, HEK293 or HepG2 cells.

\*Optimal dilution for a specific application should be determined.

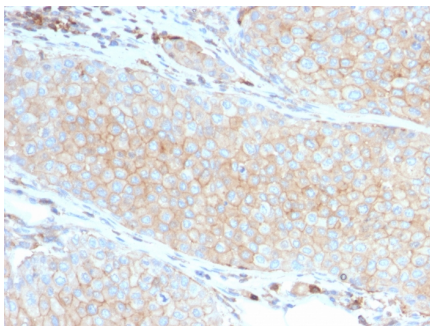
### Product Images for PD-L1 / PDCD1LG1 / CD274 / B7-H1 (Cancer Immunotherapy Target) Antibody



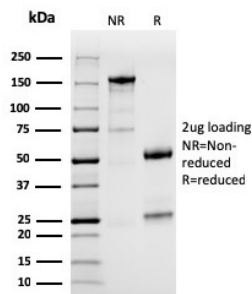
Formalin-fixed, paraffin-embedded human cervical carcinoma stained with PD-L1-Monospecific Mouse Monoclonal Antibody (PDL1/2746). HIER: Tris/EDTA, pH9.0, 45min. 2°: HRP-polymer, 30min. DAB, 5min.



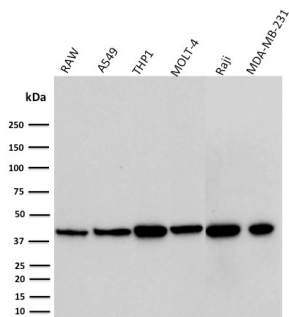
Formalin-fixed, paraffin-embedded human breast carcinoma stained with PD-L1-Monospecific Mouse Monoclonal Antibody (PDL1/2746). HIER: Tris/EDTA, pH9.0, 45min. 2°: HRP-polymer, 30min. DAB, 5min.



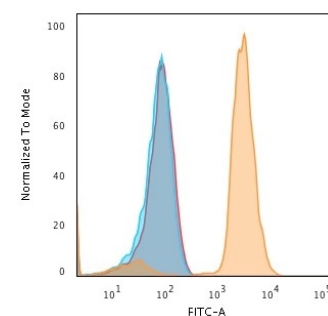
Formalin-fixed, paraffin-embedded human basal cell carcinoma stained with PD-L1-Monospecific Mouse Monoclonal Antibody (PDL1/2746). HIER: Tris/EDTA, pH9.0, 45min. 2°: HRP-polymer, 30min. DAB, 5min.



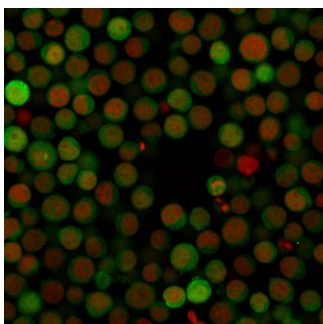
SDS-PAGE Analysis of Purified PD-L1 Mouse Monoclonal Antibody (PDL1/2746). Confirmation of Purity and Integrity of Antibody.



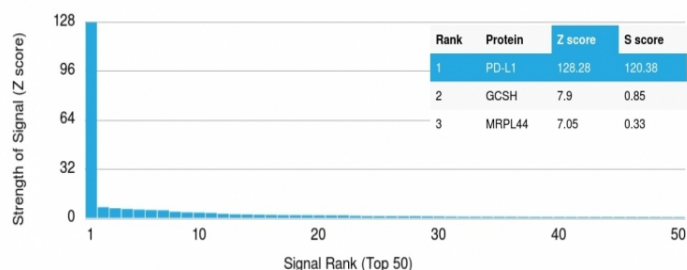
Flow cytometric analysis of Jurkat cells. PD-L1-Monospecific Mouse Monoclonal Antibody (PDL1/2746) followed by goat anti-Mouse IgG-CF488 (orange); cells alone (blue); isotype control (red).



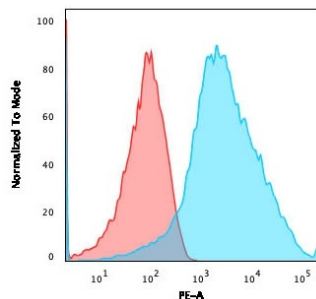
Immunofluorescent staining of Jurkat cells. PD-L1-Monospecific Mouse Monoclonal Antibody (PDL1/2746) followed by goat anti-Mouse IgG-CF488 (Green). Nuclei are stained with Reddot (Red)



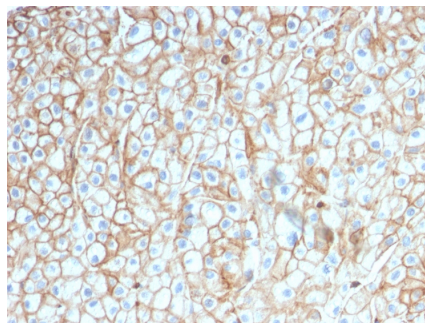
Immunofluorescent staining of Jurkat cells. PD-L1-Monospecific Mouse Monoclonal Antibody (PDL1/2746) followed by goat anti-mouse IgG-CF488 (green). Nuclei are stained with RedDot (red).



Analysis of Protein Array containing more than 19,000 full-length human proteins using PD-L1-Monospecific Mouse Monoclonal Antibody (PDL1/2746). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Flow Cytometric Analysis of human Jurkat cells using PE-conjugated PD-L1 Mouse Monoclonal Antibody (PDL1/2746) (blue); isotype control (red).



Formalin-fixed, paraffin-embedded human lung squamous cell carcinoma stained with PD-L1-Monospecific Mouse Monoclonal Antibody (PDL1/2746).  
HIER: Tris/EDTA, pH9.0, 45min. 2°: HRP-polymer, 30min. DAB, 5min.

### Specificity & Comments

PD-L1 is a checkpoint regulator in immune cells, it is expressed on immune or non-hematopoietic cells. Expression of the protein is seen during pregnancy where it has a role in suppressing the immune system. PD-L1 induces an inhibitory signal in activated T-cells and promotes T-cell apoptosis. It is overexpressed in a number of different cancers where it is believed to play a significant role in the cancer's ability to evade the immune system.

### Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Research Areas

Immuno Oncology, Immunology, Mast Cell Marker, PD-1 blockade immunotherapy, Signal Transduction

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.