

Mouse anti-Human, Mouse PD-L1 / PDCD1LG1 / CD274 / B7-H1 Antibody | anti-CD274 antibody

PD-L1 / PDCD1LG1 / CD274 / B7-H1 (Cancer Immunotherapy Target) Mouse Monoclonal Antibody [Clone PDL1/2746]

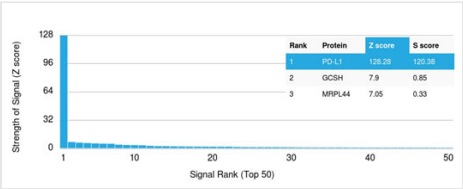
CATALOG # AAA23904	HOST Mouse	REACTIVITY Human, Mouse
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PRODUCT SYNONYMS

PD-L1 / PDCD1LG1 / CD274 / B7-H1; PD-L1 / PDCD1LG1 / CD274 / B7-H1 (Cancer Immunotherapy Target) Mouse Monoclonal Antibody [Clone PDL1/2746]; B7 homolog 1; B7-H1; CD274; PD-L1; PDCD1 ligand 1; PDCD1L1; PDCD1LG1; Programmed cell death 1 ligand 1; anti-CD274 antibody

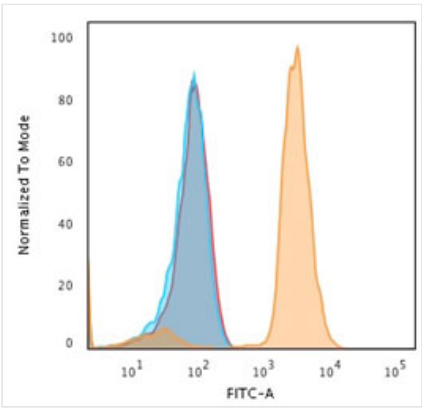
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse
Isotype	IgG2b, kappa
Specificity	Engagement of CD28 by B7-1 (CD80) or B7-2 (CD86) in the presence of antigen promotes T-cell proliferation, cytokine production, differentiation of effector T-cells and the induction of BCLX, a promoter of T-cell survival. recruitment of CTLA4 by B7-1 or B7-2, on the other hand, may inhibit proliferation and interleukin-2 (IL-2) production. PD-L1 is 290-amino acid type I transmembrane protein, which is 20% and 15% identical to B7-1 and B7-2, respectively, has immunoglobulin V-like and C-like domains and a 30-amino acid cytoplasmic tail. PD-L1 does not bind CD28, cytotoxic T-lymphocyte A4 or ICOS (inducible co-stimulator). IL-2, although produced in small amounts, is required for the effect of PD-L1 co-stimulation. PD-L2 protein contains a signal sequence, IgV- and IgC-like domains, a transmembrane region and a cytoplasmic region. Constitutive expression of PD-L1 and PD-L2 on parenchymal cells of heart, lung and kidney suggests that the PD-1-PD-L system could provide unique negative signaling to help prevent autoimmune diseases.
Form/Format	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.
Application Notes	ELISA (For coating, order antibody without BSA); Western Blotting (1-2ug/ml); Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Immunohistology (Formalin-fixed) (1-2ug/ml for 30 minutes at RT) (Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes) Optimal dilution for a specific application should be determined
Immunogen	Recombinant fragment (around aa 39-191) of human CD274 (PD-L1) protein (exact sequence is proprietary)
Cellular Localization	Cell Surface and Cytoplasmic
Positive Control	HEK293 or HepG2. Heart, Placenta, Spleen or Tonsil.
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.



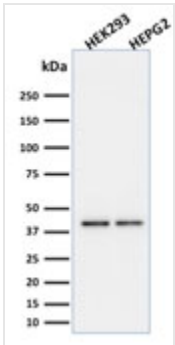
Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using PD-L1 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 HuProtTM 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 HuProtTM 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 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.



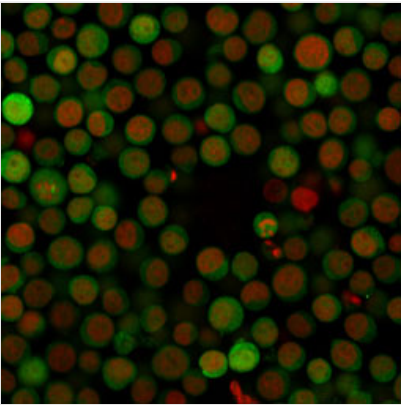
FCM (Flow Cytometry)

Flow Cytometric Analysis of Human Jurkat Cells. using PD-L1 Mouse Monoclonal Antibody (PDL1/2746) followed by Goat anti-mouse IgG-CF488 (Orange); Cells alone (Blue); Isotype Control (Red).



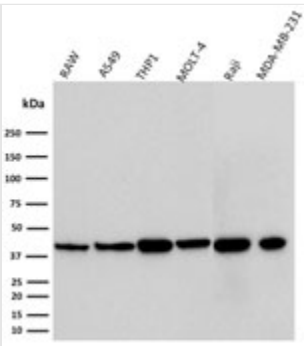
WB (Western Blot)

Western Blot Analysis of human HEK293 and HepG2 Cell Lysate using PD-L1 Mouse Monoclonal Antibody (PDL1/2746).



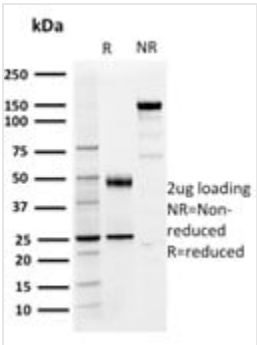
IF (Immunofluorescence)

Immunofluorescence Analysis of Human Jurkat Cells labeling PD-L1 with PD-L1 Mouse Monoclonal Antibody (PDL1/2746) followed by Goat anti-mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red)



WB (Western Blot)

Western Blot Analysis of human RAW, A549, THP1, MOLT-4, Raji, and MDA-MB-231 Cell Lysate using PD-L1 Mouse Monoclonal Antibody (PDL1/2746).



SDS-PAGE

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

ADDITIONAL INFORMATION

References	1. Dong, H., et al. 1999. Nat. Med. 5: 1365-1369.
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NCBI AND UNIPROT INFORMATION

NCBI GeneID	29126
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UniProt Accession #	Q9NZQ7
Molecular Weight	37-50kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mouse-human-mouse-antibody/pd-l1-pdcd1lg1-cd274-b7-h1/23904>