

Datasheet for ABIN6939569
anti-PD-L1 antibody (AA 39-191)

3 Images

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Overview

Quantity:	100 µg
Target:	PD-L1
Binding Specificity:	AA 39-191
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PD-L1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Coating (Coat)

Product Details

Immunogen:	Recombinant fragment of human CD274 protein (around aa39-191) (exact sequence is proprietary)
Clone:	PDL1-2744
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

Target Details

Target:	PD-L1
Alternative Name:	CD274 (PD-L1 Products)
Background:	Engagement of CD28 by B7-1 (CD80) or B7-2 (CD86) in the presence of antigen promotes T-cell

Target Details

proliferation, cytokine production, differentiation of effector T-cells and the induction of BCLX, a promoter of T-cell survival. Engagement 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. The 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.

Molecular Weight: 37-50kDa

Gene ID: 29126

UniProt: [Q9NZQ7](#)

Pathways: [Cancer Immune Checkpoints](#)

Application Details

Application Notes: Positive Control: Jurkat, HEK293 or HepG2 cells. Lung SqCC, Cervical or Breast Carcinoma.
Known Application: ELISA (For coating, order antibody without BSA), Western Blot (1-2 µg/mL), Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

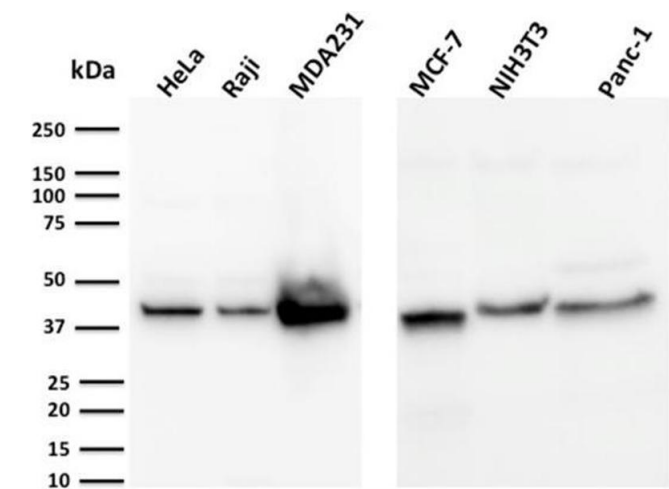
Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

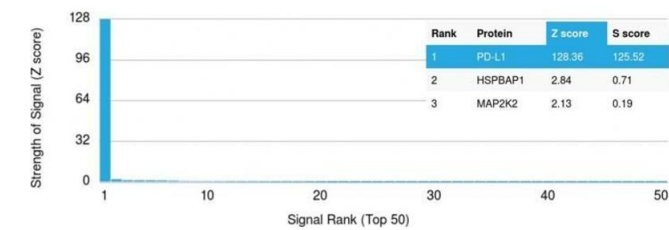
Storage: 4 °C, -80 °C

Storage Comment: 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.



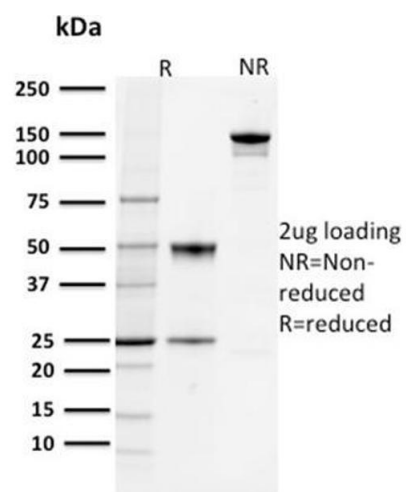
Western Blotting

Image 1. Western Blot Analysis of HeLa, Raji, MDA231, MCF-7, NIH3T3, Panc-1, cell lysates using PD-L2 Mouse Monoclonal Antibody (PDL1/2744).



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using PD-L1 Mouse Monoclonal Antibody (PDL1/2744). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (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 (SDs) 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 SDs) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody 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 Monoclonal Antibody to protein X is equal to 29.



SDS-PAGE

Image 3. SDS-PAGE Analysis Purified PD-L1 Mouse Monoclonal Antibody (PDL1/2744). Confirmation of Purity and Integrity of Antibody.