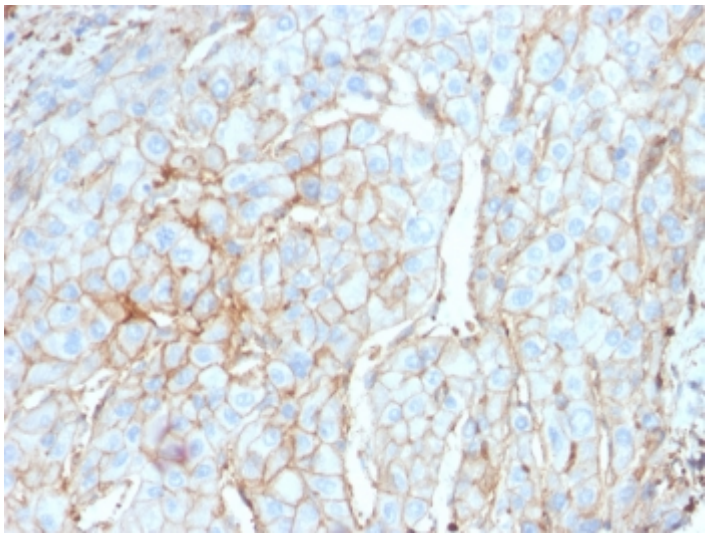
PD-L1 Antibody / B7-H1 / CD274 [clone PDL1/2746] (V3955)

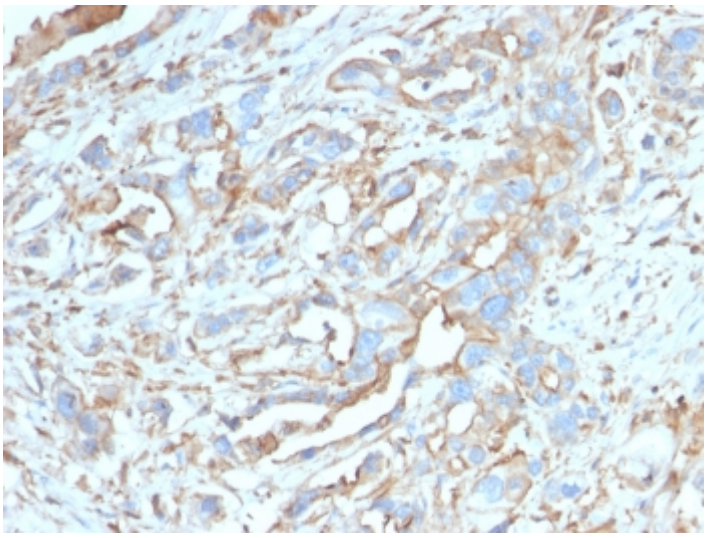
Catalog No.	Formulation	Size
V3955-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3955-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3955SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

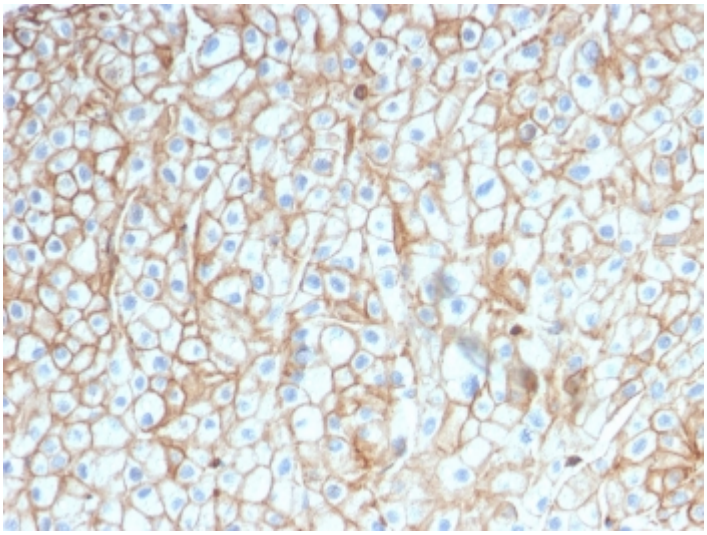
Species Reactivity	Human, Mouse
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	PDL1/2746
Purity	Protein G affinity chromatography
UniProt	Q9NZQ7
Localization	Cell surface, cytoplasm
Applications	ELISA : order BSA/sodium azide-free format for coating Western blot : 1-2ug/ml Flow cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This PD-L1 antibody is available for research use only.



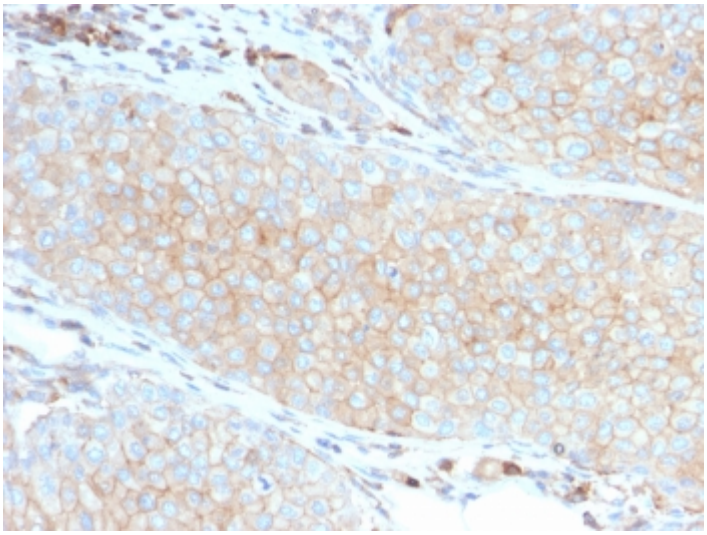
IHC testing of FFPE cervical carcinoma with PD-L1 antibody (clone PDL1/2746). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



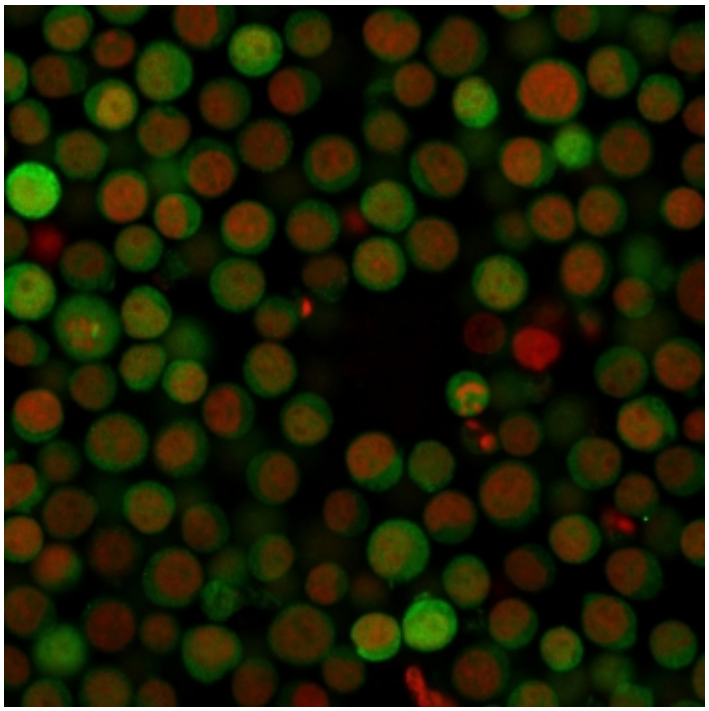
IHC testing of FFPE breast carcinoma with PD-L1 antibody (clone PDL1/2746). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



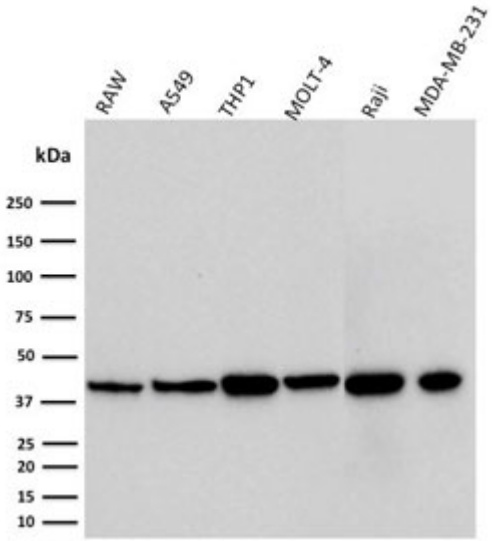
IHC testing of FFPE lung SCC with PD-L1 antibody (clone PDL1/2746). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



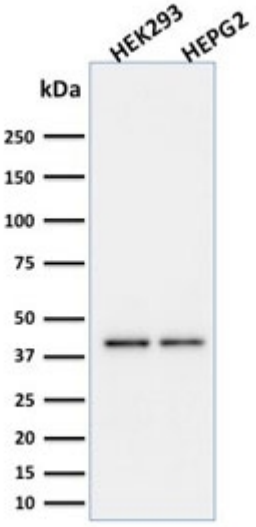
IHC testing of FFPE basal cell carcinoma with PD-L1 antibody (clone PDL1/2746). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



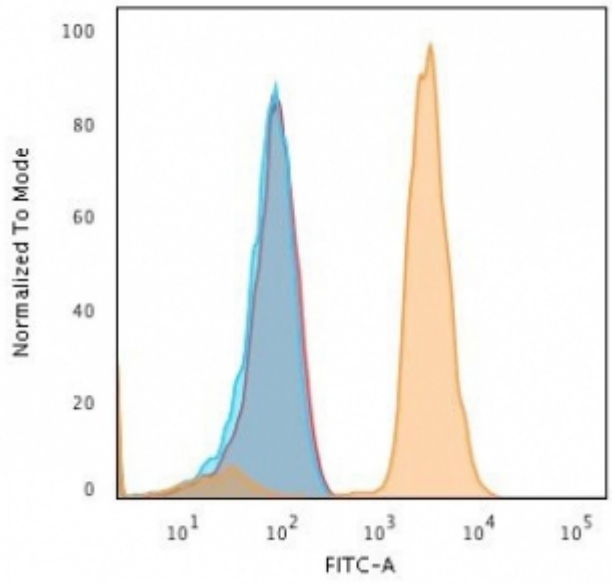
Immunofluorescent staining of human Jurkat cells with PD-L1 antibody (clone PDL1/2746) and a CF488 labeled secondary (green). Nuclei were counterstained with Reddot (red).



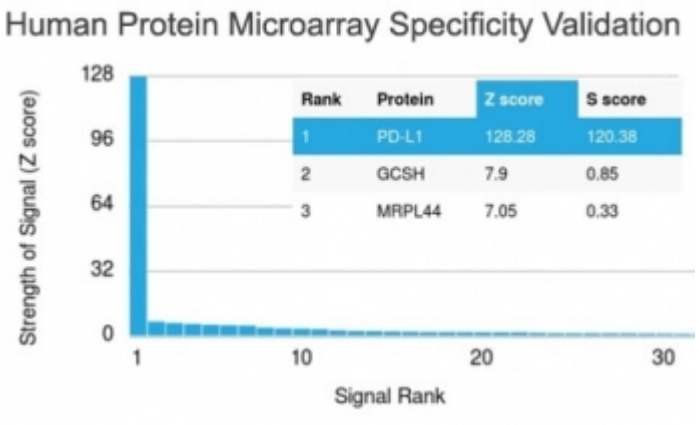
Western blot testing of mouse and human cell lysates with PD-L1 antibody (PDL1/2746). Expected molecular weight ~34 kDa (unmodified), 45-70 kDa (glycosylated).



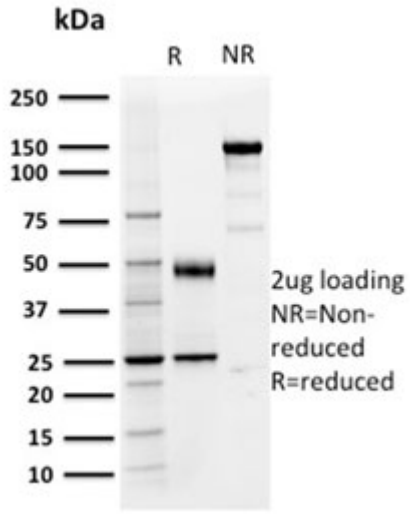
Western blot testing of human cell lysates with PD-L1 antibody (PDL1/2746). Expected molecular weight ~34 kDa (unmodified), 45-70 kDa (glycosylated).



FACS testing of fixed and permeabilized human Jurkat cells with PD-L1 antibody; Blue=cells alone, Red=isotype control, Orange= PD-L1 antibody.



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.



SDS-PAGE analysis of purified, BSA-free PD-L1 antibody (clone PDL1/2746) as confirmation of integrity and purity.

Description

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.

Application Notes

Optimal dilution of the PD-L1 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).

Ordering: Phone:858.663.9055 | Fax:1.267.821.0800 | Email:info@nsjbio.com