

For Research Use Only

PD-L1/CD274 Monoclonal antibody, PBS Only



Catalog Number: 66248-1-PBS

Featured Product

Basic Information

Catalog Number: 66248-1-PBS	GenBank Accession Number: BC074984	Purification Method: Protein A purification
Size: 100ug , Concentration: 1000 µg/ml by 29126 Nanodrop;	GeneID (NCBI): 29126	CloneNo.: 2B11D11
Source: Mouse	UNIPROT ID: Q9NZQ7	
Isotype: IgG1	Full Name: CD274 molecule	
Immunogen Catalog Number: AG12443	Calculated MW: 290 aa, 33 kDa	
	Observed MW: 45-50 kDa	

Applications

Tested Applications:
WB, IF, FC, IHC, ELISA

Species Specificity:
human, mouse, pig, rat

Background Information

Programmed cell death ligand 1 (PD-L1, CD274, or B7-H1), is the first member of B7 family to be discovered. B7 family molecules are type I transmembrane proteins belonging to the immunoglobulin superfamily. In concert with their CD28 family receptors, the B7s are key regulators of the adaptive immune response. PD-L1 is suggested as a negative regulator of T and B cell, and plays important role in mediating tolerance of lymphocytes to self-antigens. It is also involved in the costimulatory signal, essential for T-cell proliferation and production of IL10 and IFNG, in an IL2-dependent and a PD-1-independent manner. PD-L1 is a 290 aa transmembrane protein with a calculated molecular weight of 33 kDa, it is predicted to be 27-30 kDa after signal peptide cleavage (PMID: 25609200; 17076679). The apparent molecular weight has also been reported as 45-70 kDa, major glycosylated form of 45-50 kDa and multiple post-translational modifications form of 65-70 kDa (PMID: 18760278; 16493058).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.

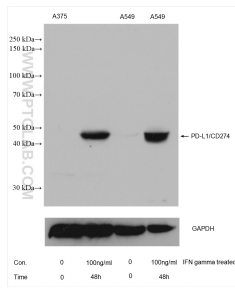
Storage Buffer:
PBS only

Aliquoting is unnecessary for -20°C storage

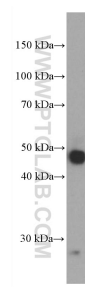
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

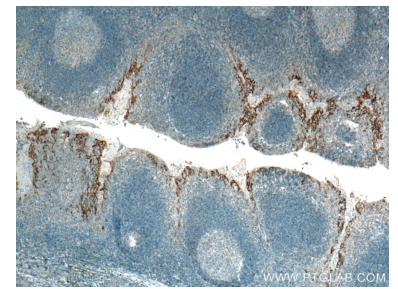
Selected Validation Data



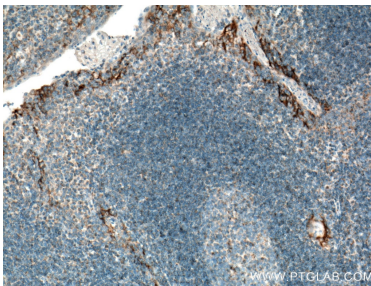
Untreated and IFN gamma treated A375 cells and A549 cells were subjected to SDS PAGE followed by western blot with 66248-1-Ig (PD-L1/CD274 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66248-1-PBS in a different storage buffer formulation.



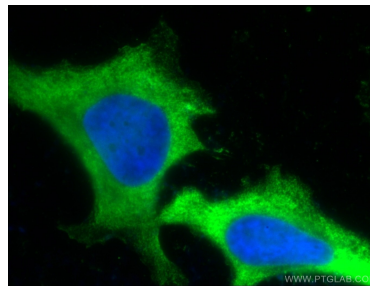
human placenta tissue were subjected to SDS PAGE followed by western blot with 66248-1-Ig (PD-L1/CD274 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66248-1-PBS in a different storage buffer formulation.



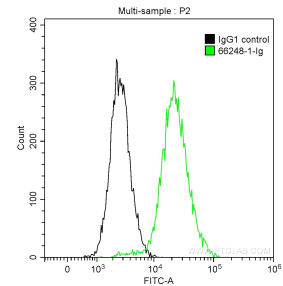
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66248-1-Ig (PD-L1/CD274 antibody) at dilution of 1:10000 (under 4x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66248-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66248-1-Ig (PD-L1/CD274 antibody) at dilution of 1:10000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66248-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (10% Formaldehyde) fixed HeLa cells using 66248-1-Ig (PD-L1/CD274 antibody) at dilution of 1:300 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66248-1-PBS in a different storage buffer formulation.



1X10⁶ MDA-MB-231 cells were stained with 0.2 ug Anti-Human PD-L1/CD274 (66248-1-Ig, Clone: 2B11D11) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), or stained with 0.2 ug mouse IgG1 isotype control antibody and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (black). Cells were fixed with 90% MeOH. This data was developed using the same antibody clone with 66248-1-PBS in