

For Research Use Only

# PD-L1/CD274 Polyclonal antibody

Catalog Number: 17952-1-AP

Featured Product

117 Publications



## Basic Information

**Catalog Number:**  
17952-1-AP

**Size:**  
150ul, Concentration: 550 µg/ml by Nanodrop and 333 µg/ml by Bradford method using BSA as the standard;

**Source:**  
Rabbit

**Isotype:**  
IgG

**Immunogen Catalog Number:**  
AG12432

**GenBank Accession Number:**  
BC074984

**GeneID (NCBI):**  
29126

**Full Name:**  
CD274 molecule

**Calculated MW:**  
290 aa, 33 kDa

**Observed MW:**  
45-56 kDa, 65-70 kDa

**Purification Method:**  
Antigen affinity purification

**Recommended Dilutions:**  
WB 1:500-1:1000  
IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB  
IHC 1:300-1:1200  
IF 1:10-1:100

## Applications

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

**Cited Applications:**  
CoIP, FC, IF, IHC, IP, WB

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** human placenta tissue, mouse heart tissue, HepG2 cells, K-562 cells, IFN gamma treated A549 cells, A375 cells, human heart tissue, HeLa cells, mouse skeletal muscle tissue

**IP:** mouse heart tissue,

**IHC:** human tonsillitis tissue, mouse heart tissue, human stomach cancer tissue

**IF:** HEK-293 cells,

## 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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Ching-Yao Yang	29036791	Cancer Biomark	IHC
Gagan Chhabra	34597611	J Invest Dermatol	IHC
Sushil Kumar	29296536	Oncoimmunology	IHC

## Storage

**Storage:**

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

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

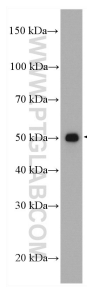
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

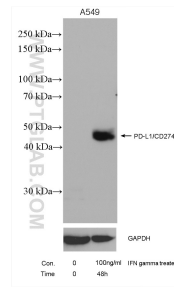
E: proteintech@ptglab.com  
W: ptglab.com

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

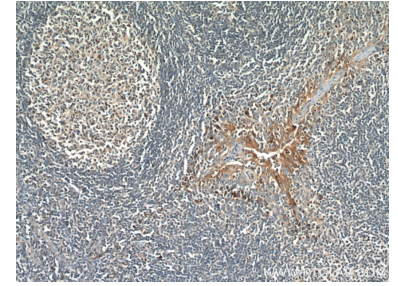
## Selected Validation Data



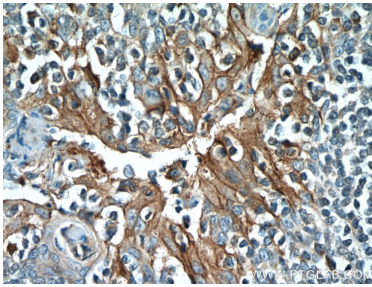
human placenta tissue were subjected to SDS PAGE followed by western blot with 17952-1-AP (PD-L1/CD274 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



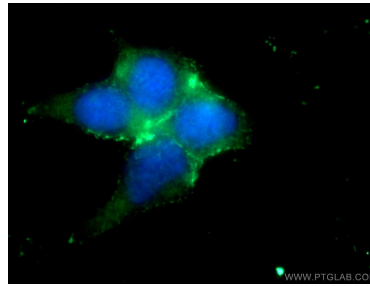
Untreated and IFN gamma treated A549 cells were subjected to SDS PAGE followed by western blot with 17952-1-AP (PD-L1/CD274 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



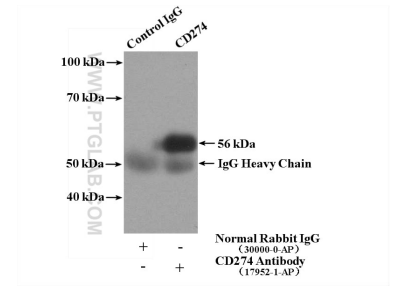
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 17952-1-AP (PD-L1/CD274 antibody) at dilution of 1:600 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



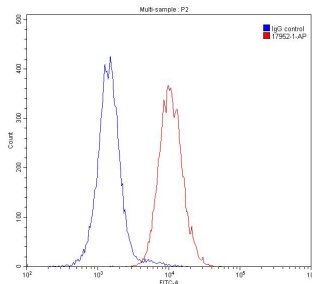
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 17952-1-AP (PD-L1/CD274 antibody) at dilution of 1:600 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HEK-293 cells using 17952-1-AP (PD-L1/CD274 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP Result of anti-PD-L1/CD274 (IP:17952-1-AP, 4ug; Detection:66248-1-Ig 1:1000) with mouse heart tissue lysate 4000ug.



1x10<sup>6</sup> Raji cells were stained with 0.20ug PD-L1/CD274 antibody (17952-1-AP, red) and control antibody (blue). Fixed with 90% MeOH.