

For Research Use Only

# PD-L1/CD274 (C-terminal) Polyclonal antibody

Catalog Number: 28076-1-AP

Featured Product

108 Publications



## Basic Information

### Catalog Number:

28076-1-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG27557

### GenBank Accession Number:

BC074984

### GeneID (NCBI):

29126

### UNIPROT ID:

Q9NZQ7

### Full Name:

CD274 molecule

### Calculated MW:

290 aa, 33 kDa

### Observed MW:

45-50 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:1000-1:6000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:500-1:2000

IF-P: 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF-P, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP, ChIP, ELISA

### 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:** IFN gamma treated A549 cells, human placenta tissue, MDA-MB-231 cells, mouse heart tissue, rat heart tissue, THP-1 cells

**IP:** MDA-MB-231 cells,

**IHC:** human tonsillitis tissue, human placenta tissue, human breast cancer tissue, human lung cancer tissue, human cervical cancer tissue

**IF-P:** human tonsillitis tissue, human placenta tissue

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Lan Zhang	34586738	Clin Transl Med	WB,IP
Wei-Fa Yang	30409325	Oral Oncol	IHC
Tseng-Cheng Chen	26365985	Oral Oncol	IHC

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

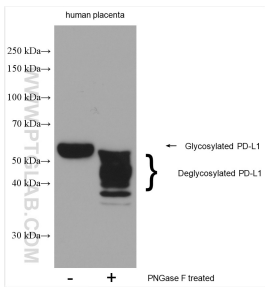
For technical support and original validation data for this product please contact:

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

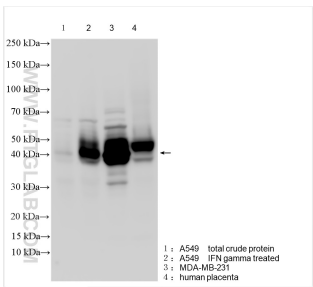
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

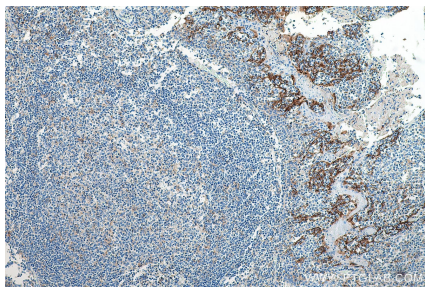
Selected Validation Data



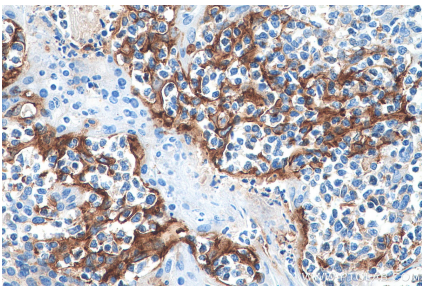
Untreated and PNGase F-treated lysates of human placenta were subjected to SDS PAGE followed by western blot with 28076-1-AP (PD-L1/CD274 (C-terminal) antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours. PNGase F was obtained from Atagenix (cat.NO. ata808).



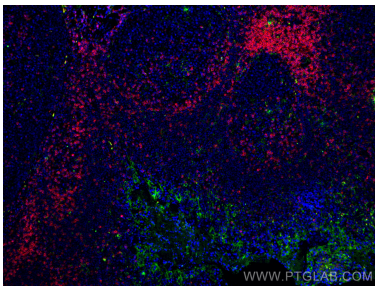
Various lysates were subjected to SDS PAGE followed by western blot with 28076-1-AP (PD-L1/CD274 (C-terminal) antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



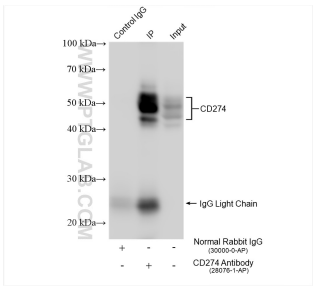
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 28076-1-AP (PD-L1/CD274 (C-terminal) antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



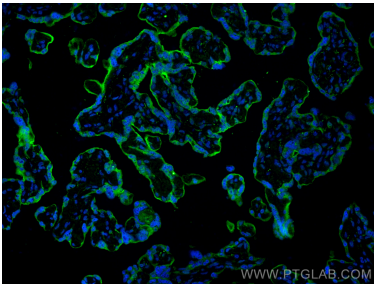
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 28076-1-AP (PD-L1/CD274 (C-terminal) antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using PD-L1/CD274 (C-terminal) antibody (28076-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CoraLite® 594 CD3 antibody (CL594-60181, Clone: 3F3A1, red).



IP result of anti-PD-L1/CD274 (C-terminal) (IP:28076-1-AP, 4ug; Detection:28076-1-AP 1:3000) with MDA-MB-231 cells lysate 920 ug.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human placenta tissue using PD-L1/CD274 (C-terminal) antibody (28076-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).