

## Anti-PD-L1 (CD274) Rabbit Monoclonal Antibody

Catalog Number: M00109

### About CD274

Phosphoinositide-3-kinase (PI3K) that phosphorylates PtdIns (Phosphatidylinositol), PtdIns4P (Phosphatidylinositol 4-phosphate) and PtdIns (4,5) P2 (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3). PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Participates in cellular signaling in response to various growth factors.

### Overview

Product Name	Anti-PD-L1 (CD274) Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PD-L1 (CD274) Rabbit Monoclonal Antibody catalog # M00109. Tested in WB, IHC applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Monoclonal IDC-3
Formulation	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9NZQ7

### Technical Details

Immunogen	A synthesized peptide derived from human PD-L1 (CD274)
Isotype	Rabbit IgG
Form	Liquid
Concentration	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity-chromatography
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:  
WB 1:100-1:500  
IHC 1:50-1:100

## Anti-PD-L1 (CD274) Rabbit Monoclonal Antibody (M00109) Images

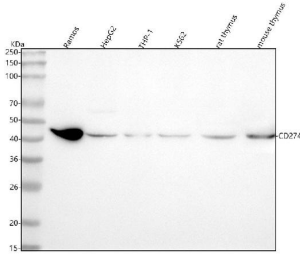


Figure 1. Western blot analysis of PD-L1 using anti-PD-L1 antibody (M00109).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human Ramos whole cell lysates,

Lane 2: human HepG2 whole cell lysates,

Lane 3: human THP-1 whole cell lysates,

Lane 4: human K562 whole cell lysates,

Lane 5: rat thymus tissue lysates,

Lane 6: mouse thymus tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes.

Blocked the membrane with 5% non-fat milk/TBS for 1.5

hour at RT. The membrane was incubated with rabbit anti-

PD-L1 antigen affinity purified monoclonal antibody (Catalog

# M00109) at 1:100 overnight at 4°C, then washed with

TBS-0.1%Tween 3 times with 5 minutes each and probed

with a goat anti-rabbit IgG-HRP secondary antibody at a

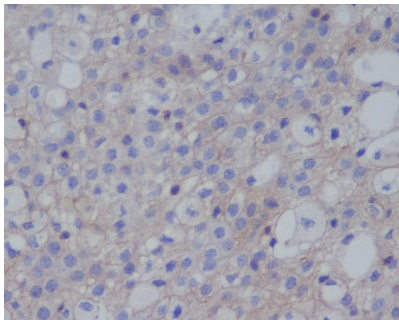
dilution of 1:5000 for 1.5 hour at RT. The signal is developed

using an Enhanced Chemiluminescent detection (ECL) kit

(Catalog # EK1002) with Tanon 5200 system. A specific

band was detected for PD-L1 at approximately 40 kDa. The

expected band size for PD-L1 is at 33 kDa.



Immunohistochemical analysis of paraffin-embedded human thymoma, using PD-L1 (CD274) Antibody.

## 2 Publications Citing This Product

1. PubMed ID: 33152901, He J,Zhang W,Di T,Meng J,Qi Y,Li G,Zhang Y,Su H,Yan W.Water extract of sporoderm-broken spores of Ganoderma lucidum enhanced pd-l1 antibody efficiency through downregulation and relieved complications of pd-l1 monoclonal antibody.Biomed Pharmacother.2020

2. PubMed ID: 30359281, CD25 and TGF- $\beta$ 2 blockade based on predictive integrated immune ratio inhibits tumor growth in pancreatic cancer

Visit [bosterbio.com/anti-pd-l1-cd274-rabbit-monoclonal-antibody-m00109-boster.html](https://www.bosterbio.com/anti-pd-l1-cd274-rabbit-monoclonal-antibody-m00109-boster.html) to see all 2 publications.

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