PD L1 Antibody (C-Term)<br>Purified Rabbit Polyclonal Antilbody (Pab)<br>Catalog \# AP22397b

## Specification

PD L1 Antibody (C-Term) - Product Information

```
Application
Primary Accession
Host
Clonality
Isotype
Calculated MW
```

WB,E
Q9NZQ7
Rablit
polyclonal
Rabbit IgG
33275

## PD L1 Antibody (C-Term) - Additional Information

Gene ID 29126

## Other Names

Programmed cell death 1 ligand 1, PD-L1, PDCD1 ligand 1, Programmed death ligand 1, hPD-L1, B7 homolog 1, B7-H1, CD274, CD274 (<a
href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=17635"
target="_blank">HGNC:17635</a>)
Target/Specificity
This PD L1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between amino acids from the human region of human PD L1.

## Dilution

WB~~1:500

## Format

Purified polyclonal antibody supplied in PBS with $0.09 \%$ (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

## Storage

Maintain refrigerated at $2-8^{\circ} \mathrm{C}$ for up to 2 weeks. For long term storage store at $-20^{\circ} \mathrm{C}$ in small aliquots to prevent freeze-thaw cycles.

Precautions
PD L1 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

## PD L1 Antibody (C-Term) - Protein Information

## Name CD274 (HGNC:17635)

Function Plays a critical role in induction and maintenance of immune tolerance to self (PubMed:11015443, PubMed:28813417, PubMed:28813410). As a ligand for the inhibitory receptor

PDCD1/PD-1, modulates the activation threshold of T-cells and limits T-cell effector response (PubMed:11015443, PubMed:28813417, PubMed:28813410). Through a yet unknown activating receptor, may costimulate T-cell subsets that predominantly produce interleukin-10 (IL10) (PubMed:10581077). Can also act as a transcription coactivator: in response to hypoxia, translocates into the nucleus via its interaction with phosphorylated STAT3 and promotes transcription of GSDMC, leading to pyroptosis (PubMed:32929201).

## Cellular Location

Cell membrane; Single-pass type I membrane protein. Early endosome membrane; Single-pass type I membrane protein. Recycling endosome membrane; Single-pass type I membrane protein. Nucleus. Note=Associates with CMTM6 at recycling endosomes, where it is protected from being targeted for lysosomal degradation (PubMed:28813417). Translocates to the nucleus in response to hypoxia via its interaction with phosphorylated STAT3 (PubMed:32929201). [Isoform 2]: Endomembrane system; Single-pass type I membrane protein

## Tissue Location

Highly expressed in the heart, skeletal muscle, placenta and lung. Weakly expressed in the thymus, spleen, kidney and liver. Expressed on activated T- and B-cells, dendritic cells, keratinocytes and monocytes.

## PD L1 Antibody (C-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PD L1 Antibody (C-Term) - Images


All lanes : Anti-PD L1 Antibody (C-Term) at 1:1000 dilution + Hela whole cell lysate Lysates/proteins at $20 \mu \mathrm{~g}$ per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated
(ASP1615) at $1 / 15000$ dilution. Observed band size : 43 kDa Blocking/Dilution buffer: 5\% NFDM/TBST.


All Ianes : Anti-PD L1 Antibody (C-Term) at 1:1000 dilution Lane 1:Hela whole cell lysate Lane 2:A549 whole cell lysate Lane 3:A431 whole cell lysate Lane 4:MCF-7 whole cell lysate Lysates/proteins at $20 \mu \mathrm{~g}$ per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at $1 / 15000$ dilution. Observed band size : 43 kDa Blocking/Dilution buffer: 5\% NFDM/TBST.


All Ianes : Anti-PD L1 Antibody (C-Term) at 1:1000 dilution Lane 1:Hela whole cell lysate Lane 2:A549 whole cell lysate Lane 3:A431 whole cell lysate Lane 4:MCF-7 whole cell lysate Lysates/proteins at $20 \mu \mathrm{~g}$ per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at $1 / 15000$ dilution. Observed band size : 43 kDa Blocking/Dilution buffer: 5\% NFDM/TBST.

## PD L1 Antibody (C-Term) - Background

Plays a critical role in induction and maintenance of immune tolerance to self (PubMed:11015443, PubMed:28813417, PubMed:28813410). As a ligand for the inhibitory receptor PDCD1/PD-1, modulates the activation threshold of T-cells and limits T-cell effector response (PubMed:11015443, PubMed:28813417, PubMed:28813410). Through a yet unknown activating receptor, may costimulate T-cell subsets that predominantly produce interleukin-10 (IL10) (PubMed:10581077).

## PD L1 Antibody (C-Term) - References

Dong H.,et al.Nat. Med. 5:1365-1369(1999).
Freeman G.J.,et al.J. Exp. Med. 192:1027-1034(2000).
He X.-H.,et al.Acta Pharmacol. Sin. 26:462-468(2005).
Chi X.-Y.,et al.Submitted (NOV-2005) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).

