

# PD-L1 (CD274) Antibody

Rabbit mAb

Catalog # AP90979

## Product Information

<b>Application</b>	WB, IHC
<b>Primary Accession</b>	<a href="#">Q9NZQ7</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	B7-H; B7H1; PD-L1; PDCD1L1; PDCD1LG1; PDL1; CD274;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	33275

## Additional Information

<b>Dilution</b>	WB 1:100~1:500 IHC 1:50~1:100
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human PD-L1 (CD274)
<b>Description</b>	Programmed cell death ligand 1(CD274, or B7-H1, PD-L1), 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. CD274 is suggested a negative regulator of T and B cell, and play important role in mediating tolerance of lymphocytes to self-antigens.
<b>Storage Condition and Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

## Protein Information

<b>Name</b>	CD274 ( <a href="#">HGNC:17635</a> )
<b>Function</b>	Plays a critical role in induction and maintenance of immune tolerance to self (PubMed: <a href="#">11015443</a> , PubMed: <a href="#">28813410</a> , PubMed: <a href="#">28813417</a> , PubMed: <a href="#">31399419</a> ). As a ligand for the inhibitory receptor PDCD1/PD-1, modulates the activation threshold of T-cells and limits T-cell effector response (PubMed: <a href="#">11015443</a> , PubMed: <a href="#">28813410</a> , PubMed: <a href="#">28813417</a> , PubMed: <a href="#">36727298</a> ). Through a yet unknown activating receptor, may costimulate T-cell subsets that predominantly produce interleukin-10 (IL10) (PubMed: <a href="#">10581077</a> ). 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: <a href="#">32929201</a> ).
<b>Cellular Location</b>	Cell membrane; Single-pass type I membrane protein. Early endosome

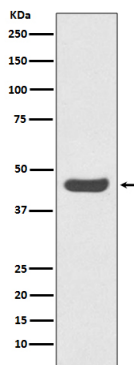
membrane; Single-pass type I membrane protein. Recycling endosome membrane; Single-pass type I membrane protein. Nucleus. Note=Associates with CMTM6 at recycling endosomes, where it is protected from being targeted for lysosomal degradation (PubMed:28813417). Translocates to the nucleus in response to 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.

### Images

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Western blot analysis of PD-L1 (CD274) expression in Ramos cell lysate.

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

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