

# CD274 Polyclonal Antibody

Catalog # AP74216

## Product Information

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Application	IHC-P
Primary Accession	<a href="#">Q9NZQ7</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33275

## Additional Information

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Gene ID	29126
Other Names	Programmed cell death 1 ligand 1 (PD-L1) (PDCD1 ligand 1) (Programmed death ligand 1) (B7 homolog 1) (B7-H1) (CD antigen CD274)
Dilution	IHC-P~~IHC-p 1:50-200, ELISA 1:10000-20000
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## Protein Information

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Name	CD274 ( <a href="#">HGNC:17635</a> )
Function	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> ).
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.

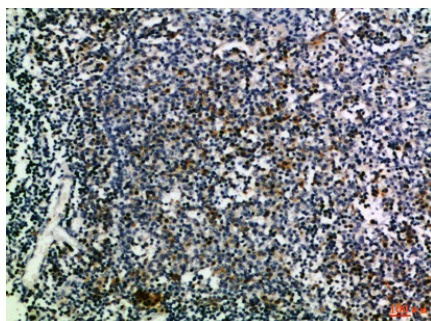
## Background

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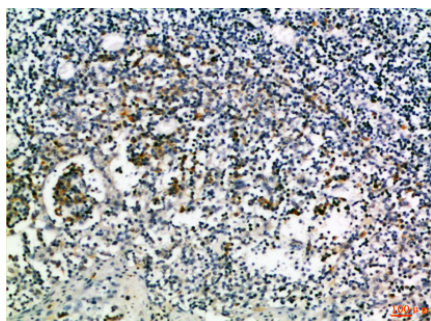
Plays a critical role in induction and maintenance of immune tolerance to self. As a ligand for the inhibitory receptor PDCD1/CD279, modulates the activation threshold of T-cells and limits T-cell effector response (PubMed:[11015443](#)). The PDCD1/CD279-mediated inhibitory pathway is exploited by tumors to attenuate anti-tumor immunity and facilitate tumor survival (PubMed:[28813417](#), PubMed:[28813410](#)). Through a yet unknown activating receptor, may costimulate T-cell subsets that predominantly produce interleukin-10 (IL10) (PubMed:[10581077](#)).

## Images

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Immunohistochemical analysis of paraffin-embedded Human-tonsil, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded Human-tonsil, antibody was diluted at 1:100

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