

**CD274 Antibody - C-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI14949****Specification**

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**CD274 Antibody - C-terminal region - Product Information**

Application	WB
Primary Accession	<a href="#">O9NZQ7</a>
Other Accession	<a href="#">NM_014143</a> , <a href="#">NP_054862</a>
Reactivity	Human, Horse
Predicted	Human, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32kDa KDa

**CD274 Antibody - C-terminal region - Additional Information****Gene ID** 29126**Alias Symbol** B7-H, B7H1, MGC142294, MGC142296, PD-L1, PDCD1L1, PDCD1LG1, PDL1**Other Names**

Programmed cell death 1 ligand 1, PD-L1, PDCD1 ligand 1, Programmed death ligand 1, B7 homolog 1, B7-H1, CD274, CD274, B7H1, PDCD1L1, PDCD1LG1, PDL1

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-CD274 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

CD274 Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

**CD274 Antibody - C-terminal region - Protein Information****Name** CD274 ([HGNC:17635](#))**Function**

Plays a critical role in induction and maintenance of immune tolerance to self (PubMed:&lt;a href="http://www.uniprot.org/citations/11015443" target="\_blank"&gt;11015443&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/28813410" target="\_blank"&gt;28813410&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/28813417" target="\_blank"&gt;28813417&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/31399419" target="\_blank"&gt;31399419&lt;/a&gt;). As a ligand for the inhibitory receptor PDCD1/PD-1, modulates the activation threshold of T-cells and limits T-cell effector response (PubMed:&lt;a href="http://www.uniprot.org/citations/11015443" target="\_blank"&gt;11015443&lt;/a&gt;)

target="\_blank">11015443</a>, PubMed:<a href="http://www.uniprot.org/citations/28813410" target="\_blank">28813410</a>, PubMed:<a href="http://www.uniprot.org/citations/28813417" target="\_blank">28813417</a>, PubMed:<a href="http://www.uniprot.org/citations/36727298" target="\_blank">36727298</a>). Through a yet unknown activating receptor, may costimulate T-cell subsets that predominantly produce interleukin-10 (IL10) (PubMed:<a href="http://www.uniprot.org/citations/10581077" target="\_blank">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="http://www.uniprot.org/citations/32929201" target="\_blank">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

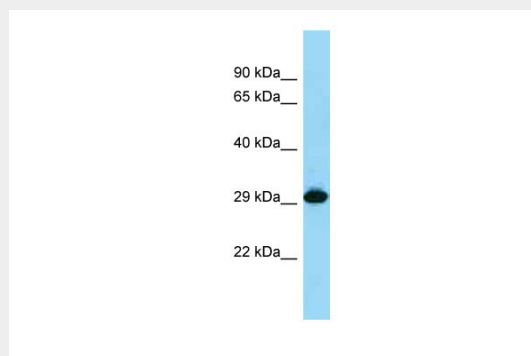
Highly expressed in the heart, skeletal muscle, placenta and lung. Weakly expressed in the thymus, spleen, kidney and liver. Expressed on activated T- and B-cells, dendritic cells, keratinocytes and monocytes.

## CD274 Antibody - C-terminal region - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## CD274 Antibody - C-terminal region - Images



WB Suggested Anti-CD274 Antibody Titration: 1.0 µg/ml  
Positive Control: Fetal Heart

## CD274 Antibody - C-terminal region - 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).