

**Anti-CD274 Antibody**  
Rabbit polyclonal antibody to CD274  
Catalog # AP60240

### Specification

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#### Anti-CD274 Antibody - Product Information

Application	WB
Primary Accession	<a href="#">O9NZQ7</a>
Other Accession	<a href="#">O9EP73</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33275

#### Anti-CD274 Antibody - Additional Information

Gene ID 29126

#### Other Names

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

#### Target/Specificity

Recognizes endogenous levels of CD274 protein.

#### Dilution

WB~~WB (1/500 - 1/1000)

#### Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

#### Storage

Store at -20 °C. Stable for 12 months from date of receipt

#### Anti-CD274 Antibody - Protein Information

Name CD274 ([HGNC:17635](#))

#### Function

Plays a critical role in induction and maintenance of immune tolerance to self (PubMed: <a href="http://www.uniprot.org/citations/11015443" 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/31399419" target="\_blank">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="http://www.uniprot.org/citations/11015443" target="\_blank">11015443</a>, PubMed: <a href="http://www.uniprot.org/citations/28813410" target="\_blank">28813410</a>).

target="\_blank">28813410</a>, PubMed:<a href="http://www.uniprot.org/citations/28813417" target="\_blank">28813417</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

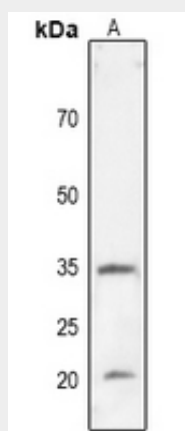
Highly expressed in the heart, skeletal muscle, placenta and lung. Weakly expressed in the thymus, spleen, kidney and liver. Expressed on activated T- and B-cells, dendritic cells, keratinocytes and monocytes.

## Anti-CD274 Antibody - 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](#)

## Anti-CD274 Antibody - Images



Western blot analysis of CD274 expression in mouse lung (A) whole cell lysates.

## Anti-CD274 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CD274. The exact sequence is proprietary.