

**Goat anti-CD274 / PD-L1, Biotinylated Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF4445a

### Specification

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#### Goat anti-CD274 / PD-L1, Biotinylated Antibody - Product Information

Application	WB, Pep-ELISA
Primary Accession	<a href="#">O9NZQ7</a>
Other Accession	<a href="#">NP_054862.1</a> , <a href="#">NP_001254635.1</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	33275

#### Goat anti-CD274 / PD-L1, Biotinylated Antibody - Additional Information

**Gene ID** 29126

#### Other Names

CD274; CD274 molecule; B7-H; B7H1; PD-L1; PDCD1L1; PDCD1LG1; PDL1; B7 homolog 1; CD274 antigen; PDCD1 ligand 1

#### Format

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

#### Immunogen

This antibody is expected to recognize reported isoforms a and b ([NP\\_054862.1](#); [NP\\_001254635.1](#)) only.

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

Goat anti-CD274 / PD-L1, Biotinylated Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

#### Goat anti-CD274 / PD-L1, Biotinylated 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/28813417" target="\_blank">28813417</a>, PubMed:<a href="http://www.uniprot.org/citations/28813417" target="\_blank">28813417</a>)

[31399419](http://www.uniprot.org/citations/31399419)). 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](http://www.uniprot.org/citations/11015443), PubMed: [28813410](http://www.uniprot.org/citations/28813410), PubMed: [28813417](http://www.uniprot.org/citations/28813417), PubMed: [36727298](http://www.uniprot.org/citations/36727298)). Through a yet unknown activating receptor, may costimulate T-cell subsets that predominantly produce interleukin-10 (IL10) (PubMed: [10581077](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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.

### Goat anti-CD274 / PD-L1, Biotinylated 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](#)

### Goat anti-CD274 / PD-L1, Biotinylated Antibody - Images