

B7-H1 / PD-L1 / CD274 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS17252**Specification**

B7-H1 / PD-L1 / CD274 Antibody - Product Information

Application	IHC-P
Primary Accession	O9NZQ7
Other Accession	29126
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33275

B7-H1 / PD-L1 / CD274 Antibody - Additional Information**Gene ID** 29126**Other Names**

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

Target/Specificity

Human B7-H1 / PD-L1 / CD274

Reconstitution & Storage

PBS, pH 7.2, 0.05% sodium azide. Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

Precautions

B7-H1 / PD-L1 / CD274 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

B7-H1 / PD-L1 / CD274 Antibody - Protein Information**Name** CD274 ([HGNC:17635](#))**Function**

Plays a critical role in induction and maintenance of immune tolerance to self (PubMed:11015443, PubMed:28813417, PubMed:28813410). 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, PubMed:28813417, PubMed:28813410). Through a yet unknown activating receptor, may costimulate T-cell subsets that predominantly produce interleukin-10 (IL10) (PubMed:<a

[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 ([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

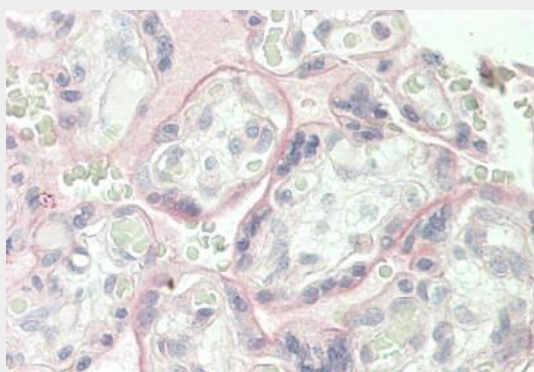
Highly expressed in the heart, skeletal muscle, placenta and lung. Weakly expressed in the thymus, spleen, kidney and liver. Expressed on activated T- and B-cells, dendritic cells, keratinocytes and monocytes.

B7-H1 / PD-L1 / 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](#)

B7-H1 / PD-L1 / CD274 Antibody - Images



Human Placenta: Formalin-Fixed, Paraffin-Embedded (FFPE)

B7-H1 / PD-L1 / CD274 Antibody - Background

Involved in the costimulatory signal, essential for T- cell proliferation and production of IL10 and IFNG, in an IL2- dependent and a PDCD1-independent manner. Interaction with PDCD1 inhibits T-cell proliferation and cytokine production.

B7-H1 / PD-L1 / CD274 Antibody - 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).