

**PDL1 Antibody [6H10]**  
**Catalog # ASC12139****Specification****PDL1 Antibody [6H10] - Product Information**

Application	WB, IHC-P, IF, ICC, E
Primary Accession	<a href="#">Q9NZQ7</a>
Other Accession	<a href="#">NP_054862</a>
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	Predicted: 33kD
	Observed: 37kD KDa

**PDL1 Antibody [6H10] - Additional Information**

Gene ID	29126
Alias Symbol	CD274

**Other Names**

PD-L1 Antibody: Programmed cell death 1 ligand-1, programmed death ligand 1, PDL1, PDL-1, B7-H1

**Target/Specificity**

PD-L1 Antibody has no cross-reactivity to PD-L2.

**Reconstitution & Storage**

PD-L1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

PDL1 Antibody [6H10] is for research use only and not for use in diagnostic or therapeutic procedures.

**PDL1 Antibody [6H10] - 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>, 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.

## **PDL1 Antibody [6H10] - 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](#)

## **PDL1 Antibody [6H10] - Images**

## **PDL1 Antibody [6H10] - Background**

PD-L1 plays a critical role in induction and maintenance of immune tolerance to self. As a ligand for the inhibitory receptor PDCD1/CD279, PD-L1 modulates the activation threshold of T-cells and limits T-cell effector response (1). The PDCD1/CD279-mediated inhibitory pathway is exploited by tumors to attenuate anti-tumor immunity and facilitate tumor survival (2,3). Through a yet unknown activating receptor, it may costimulate T-cell subsets that predominantly produce interleukin-10 (IL10) (4).

## **PDL1 Antibody [6H10] - References**

Freeman et al. Exp. Med. 2000; 192:1027-34. Burr et al. Nature 2017; 549:101-5. Mezzadra et al. Nature 2017; 549:106-10. Dong et al. Nat. Med. 1999 5:1365-9.