

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

Application	WB, IHC-P, IF, ICC, E
Primary Accession	Q9NZ07
Other Accession	NP_054862
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:11015443, PubMed:28813410, PubMed:28813417, PubMed: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, PubMed:28813410).

target="_blank">28813410, PubMed:28813417, PubMed:36727298). Through a yet unknown activating receptor, may costimulate T-cell subsets that predominantly produce interleukin-10 (IL10) (PubMed: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).

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.