

Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (atezolizumab)

Recombinant Antibody Catalog # APR10203

Product Information

FC, Kinetics, Animal Model
<u>Q9NZQ7</u>
Human
Monoclonal
IgG1
33275

Additional Information

Target/Specificity	B7-H1 / PD-L1 / CD274
Endotoxin Conjugation	Unconjugated
Expression system	CHO Cell
Format	Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

Protein Information

Name	CD274 (<u>HGNC:17635</u>)
Function	Plays a critical role in induction and maintenance of immune tolerance to self (PubMed: <u>11015443</u> , PubMed: <u>28813410</u> , PubMed: <u>28813417</u> , PubMed: <u>31399419</u>). As a ligand for the inhibitory receptor PDCD1/PD-1, modulates the activation threshold of T-cells and limits T-cell effector response (PubMed: <u>11015443</u> , PubMed: <u>28813410</u> , PubMed: <u>28813417</u> , PubMed: <u>36727298</u>). Through a yet unknown activating receptor, may costimulate T-cell subsets that predominantly produce interleukin-10 (IL10) (PubMed: <u>10581077</u>). 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: <u>32929201</u>).
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.

Images



The endocytosis ratio atezolizumab by HCC827 increased with the increase of antibody concentration, and the Internalization Rate (%) reached 60% at antibody concentration of 0.5 nM.



Atezolizumab inhibited the tumor growth of MC38 on C57BL/6N mice. The result showed significant anti-tumor effects, with an tumor inhibition rate (TGI) of 85.2% at 2 mpk at D35.

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