10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

Recombinant Antibody
Catalog # APR10203

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	Q9NZQ7
Reactivity	Cynomolgus, Human, Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	33275

Additional Information

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

Protein Information

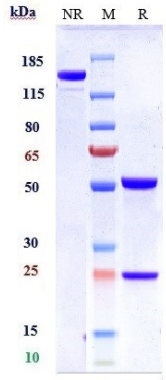
Name	CD274 (HGNC:17635)
Function	Plays a critical role in induction and maintenance of immune tolerance to self (PubMed:11015443, PubMed:28813410, PubMed:28813417, PubMed:31399419). As a ligand for the inhibitory receptor PDCD1/PD-1, modulates the activation threshold of T-cells and limits T-cell effector response (PubMed:11015443, PubMed:28813410, 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

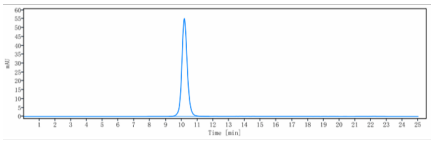
Tissue Location

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.

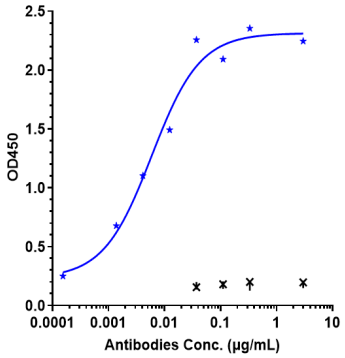
Images



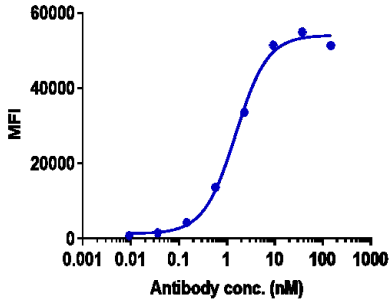
Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (atezolizumab) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (atezolizumab) is 100%, determined by SEC-HPLC.

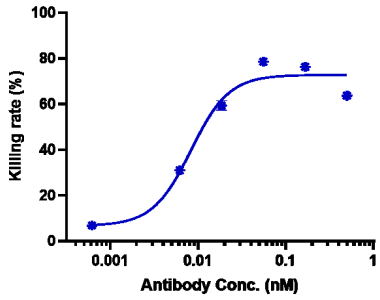


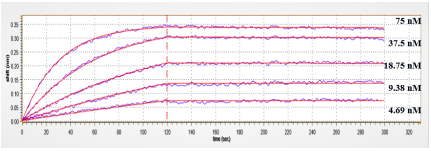
Immobilized human PD-L1 His at 2 ug/mL can bind Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (atezolizumab), EC50=0.005894 ug/mL.



Human PD-L1 CHO-K cells were stained with Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (atezolizumab) and negative control protein respectively, washed and then followed by PE and analyzed with FACS, EC50=1.533 nM.

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.





Affinity constant of 7.62E-11M as determined in BLI assay.(Human B7-H1 / PD-L1 / CD274 , His Tag)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.