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Anti-H_PDL1 hIgG1 Reference Antibody(Atezbio)

Product Information

Product Name	Anti-H_PDL1 hIgG1 Reference Antibody(Atezbio)
Storage temp.	Store at 2-8℃ short term (1-2 weeks).Store at ≤ -20℃ long term. Avoid repeated freeze-thaw.
Catalog# / Size	GM-86854MAB-1mg / 1 mg GM-86854MAB-5mg / 5 mg GM-86854MAB-25mg / 25 mg GM-86854MAB-50mg / 50 mg GM-86854MAB-100mg / 100 mg

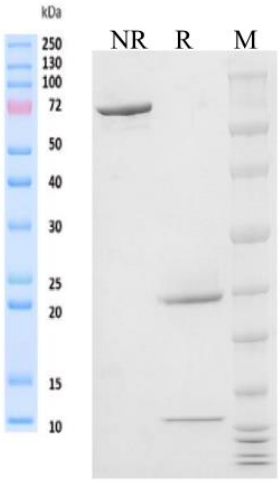
Antibody Information

Expression System	CHO
Aggregation	< 5% as determined by SEC-HPLC
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/mg, determined by LAL gel clotting assay
Sterility	0.2 μm Filtered
Target	PDL1
Clone	Atezolizumab
Alternative Names	B7-H, B7H1, PD-L1, PDCD1L1, PDCD1LG1, CD274, hPD-L1
Source/Isotype	Human IgG1(KEEM, N297A), Kappa
Application	Flow cytometry; Bioactivity-ELISA; Block assay
Description	The programmed cell death 1 protein (PD-1, PDCD1, CD279) is a member of the CD28 family of immunoreceptors that regulate T cell activation and immune responses. The PD-1 protein contains an extracellular Ig V domain, a transmembrane domain, and a cytoplasmic tail that includes an immunoreceptor tyrosine-based inhibitory motif (ITIM) and an immunoreceptor tyrosine-based switch motif (ITSM). PD-1 is activated by the cell surface ligands PD-L1 and PD-L2. Upon activation, PD-1 ITIM and ITSM phosphorylation leads to the recruitment of the protein tyrosine phosphatases SHP-1 and SHP-2, which suppress TCR signaling. In addition to activated T-cells, PD-1 is expressed in activated B-cells and monocytes, although its function in these cell types has not been fully characterized. The PD-1 pathway plays an important role in immune tolerance; however, research studies show that cancer cells often adopt this pathway to escape immune surveillance. Consequently, blockade of

	PD-1 and its ligands is proving to be a sound strategy for neoplastic intervention.
Formulation	phosphate-buffered solution, pH 7.4.

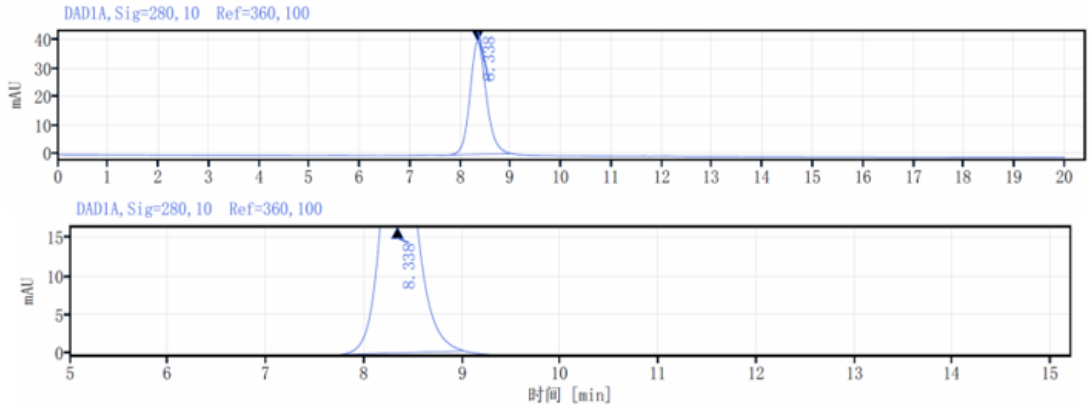
Data Examples

SDS-PAGE



On SDS-PAGE under reducing (R)/non-reducing(N-R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-HPLC

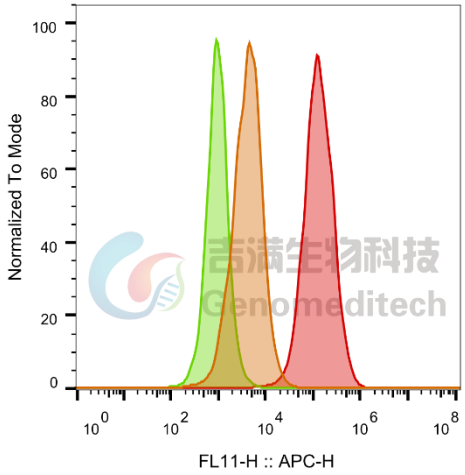


The purity of this product is more than 95% verified by SEC-HPLC

Data Examples

Flow cytometry

H_PD-L1 Raji Cell Line (Catalog # GM-C03541) was stained with Anti-H_PDL1 hIgG1 Reference Antibody(Atezbio) (Catalog # GM-86854MAB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.



	SampleID	Geometric Mean : FL11-H
	Raji anti-PD-L1+APC-2nd Ab	4109
	Raji H_PD-L1 H_IgG+APC-2nd Ab	964
	Raji H_ PD-L1 anti-PD-L1+APC-2nd Ab	127551

Fig. FACS

Bioactivity-ELISA

Human PDL1 Protein; His Tag (Catalog # GM-85609RP) was immobilized at 1 μg/ml (100 μL/well). Increasing concentrations of Anti-H_PDL1 hIgG1 Reference Antibody(Atezibo) (Catalog # GM-86854MAB) were added.

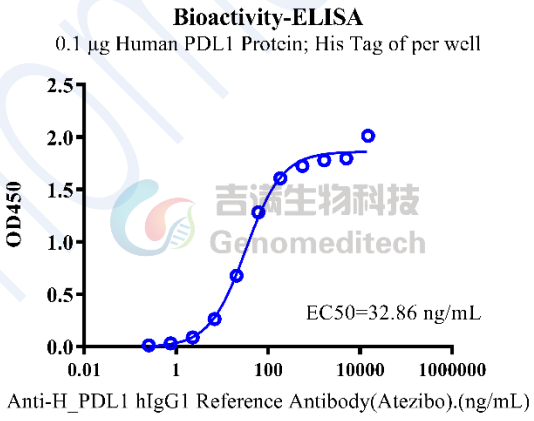


Fig. Assay

Version:3.2

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Bioactivity-ELISA

Cynomolgus PDL1 Protein; His Tag (Catalog # GM-85611RP) was immobilized at 1 μg/ml (100 μL/well) on Anti-His mIgG2a Antibody (Catalog # GM-59493AB) (0.6 μg/well) precoated. Increasing concentrations of Anti-H_PDL1 hIgG1 Reference Antibody(Atezibo) (Catalog # GM-86854MAB) were added.

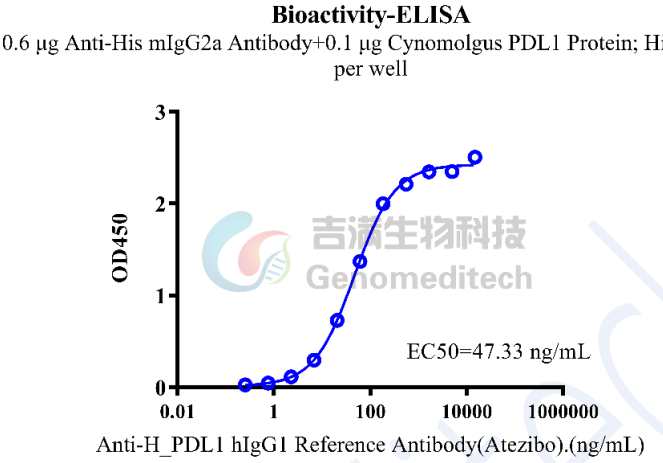
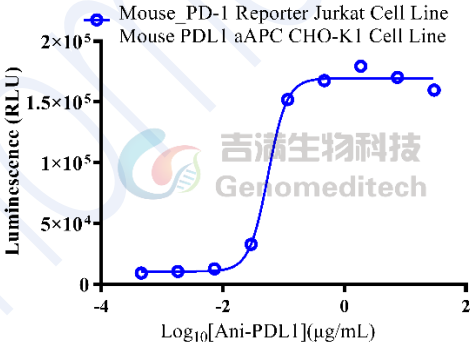


Fig. Assay

Block assay

H_PDL1 hIgG1 Reference Antibody(Atezibo) (Catalog # GM-86854MAB) stimulated Luminescence of Mouse_PD-1 Reporter Jurkat Cell Line (Catalog # GM-C25661) binded with Mouse PDL1 aAPC CHO-K1 Cell Line (Catalog # GM-C25791). EC50 for this effect is 0.05577 μg/mL.



	Mouse_PD-1 Reporter Jurkat
EC50	0.05577

Fig. Assay