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Anti-PD-L1 hIgG1 Reference Antibody (Avebio)

Product Information

Product Name	Anti-PD-L1 hIgG1 Reference Antibody (Avebio)
Storage temp.	Store at 2-8℃ short term (1-2 weeks).Store at ≤ -20℃ long term. Avoid repeated freeze-thaw.
Catalog# / Size	**GM-87782MAB-1mg / 1 mg** **GM-87782MAB-5mg / 5 mg** **GM-87782MAB-25mg / 5 mg*5 vials** **GM-87782MAB-50mg / 50 mg** **GM-87782MAB-100mg / 50 mg*2 vials**

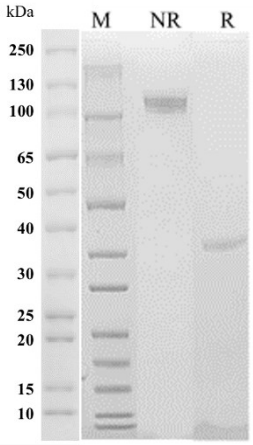
Antibody Information

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	PD-L1
Clone	Avelumab
Alternative Names	B7-H, B7H1, PDL1, PDCD1L1, PDCD1LG1, CD274, hPD-L1
Source/Isotype	Human IgG1 (KDEL), lambda
Application	Bioactivity-ELISA
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 7.2-7.4.

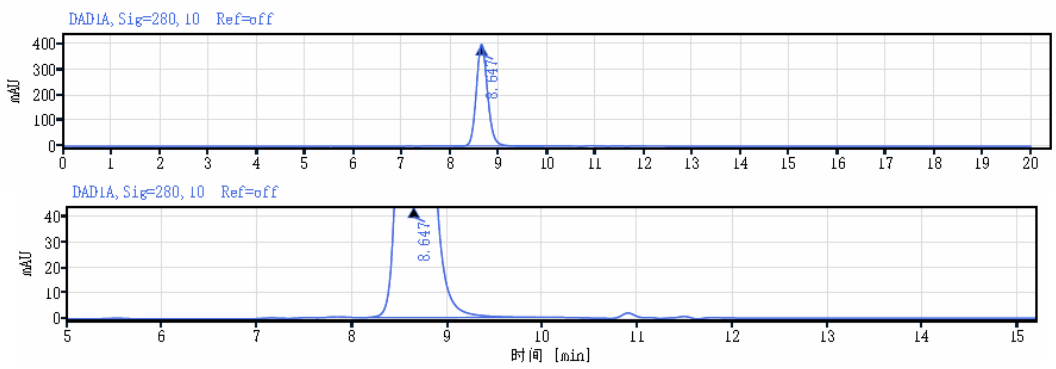
Data Examples

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

Bioactivity-ELISA

Human PDL1 Protein; His Tag (Catalog # GM-85609RP) was immobilized at 1 μg/ml (100 μL/well). Increasing concentrations of Anti-PD-L1 hIgG1 Reference Antibody (Avebio) (Catalog # GM-87782MAB) were added.

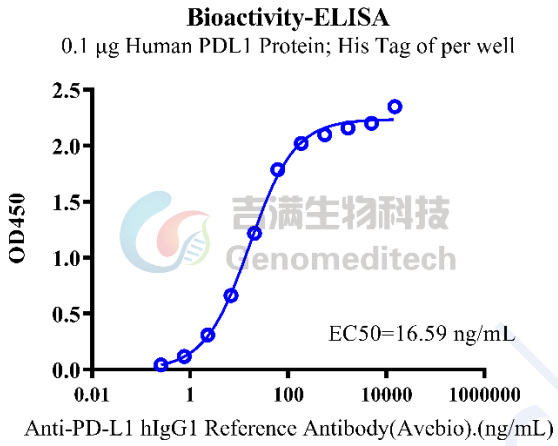


Fig. ELISA

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-PD-L1 hIgG1 Reference Antibody (Avebio) (Catalog # GM-87782MAB) were added.

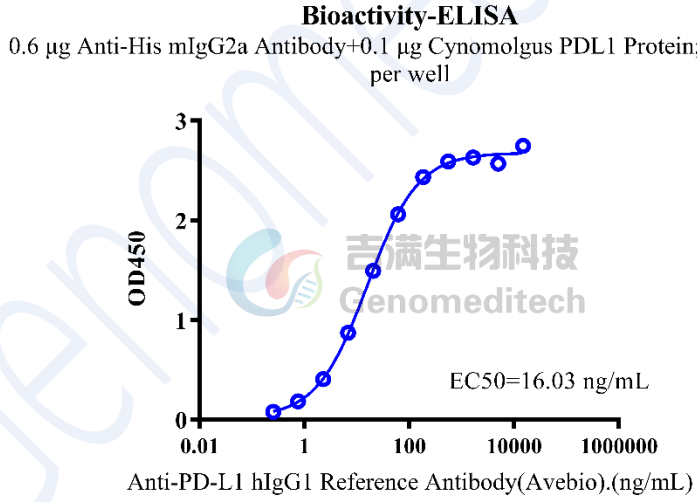


Fig. ELISA