

# Anti-PD1 hIgG4 Reference Antibody(Cambio)

## Product Information

<b>Product Name</b>	Anti-PD1 hIgG4 Reference Antibody(Cambio)
<b>Storage temp.</b>	Store at 2-8°C short term (1-2 weeks).Store at $\leq -20^{\circ}\text{C}$ long term. Avoid repeated freeze-thaw.
<b>Catalog# / Size</b>	<b>GM-87803MAB-1mg / 1 mg</b> <b>GM-87803MAB-5mg / 5 mg</b> <b>GM-87803MAB-25mg / 5 mg*5 vials</b> <b>GM-87803MAB-50mg / 50 mg</b> <b>GM-87803MAB-100mg / 50 mg*2 vials</b>

## Antibody Information

<b>Expression System</b>	CHO
<b>Aggregation</b>	< 5% as determined by SEC-HPLC
<b>Purity</b>	> 95% as determined by SDS-PAGE
<b>Endotoxin</b>	< 1 EU/mg, determined by LAL gel clotting assay
<b>Sterility</b>	0.2 $\mu\text{m}$ Filtered
<b>Target</b>	PD1
<b>Clone</b>	Camrelizumab
<b>Alternative Names</b>	CD279, PD-1, PDCD1, SLEB2, hPD-1, hPD-I, hSLE1
<b>Source/Isotype</b>	Monoclonal human IgG4 (S228P),Kappa
<b>Application</b>	Bioactivity-ELISA
<b>Description</b>	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

Version:3.3

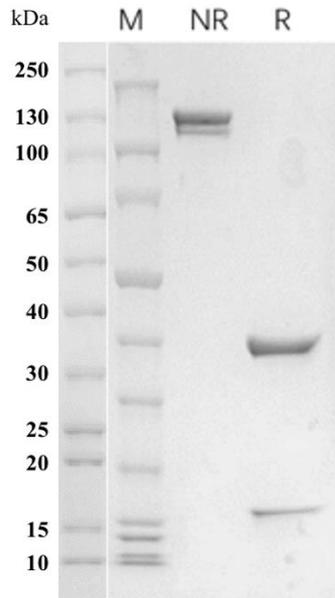
PD-1 and its ligands is proving to be a sound strategy for neoplastic intervention.

**Formulation**

phosphate-buffered solution, pH 7.2-7.4.

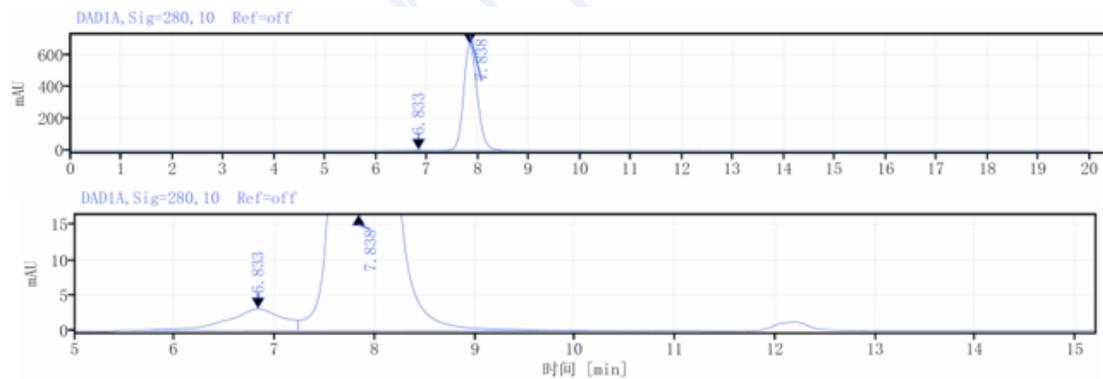
**Data Examples**

**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 PD1 Protein; His Tag (Catalog # GM-87593RP) was immobilized at 1 µg/ml (100 µL/well). Increasing concentrations of Anti-PD1 hlgG4 Reference Antibody (Cambio) (Catalog # GM-87803MAB) were added.

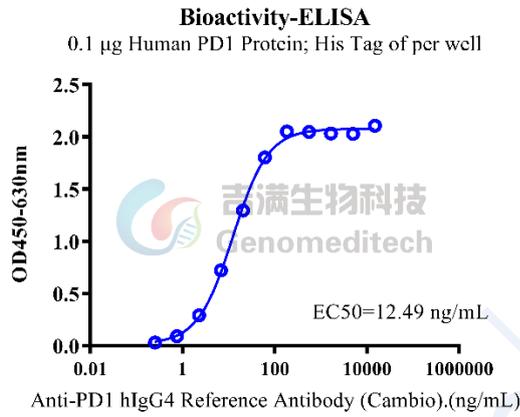


Fig. Assay