Genomeditech (Shanghai) Co.,Ltd. Order: 021-68455258/50432826/50432825

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# Anti-PD1 hlgG4 Reference Antibody (Pembio)

### **Product Information**

Product Name Anti-PD1 hlgG4 Reference Antibody (Pembio)

Storage temp. Store at  $2-8^{\circ}$ C short term (1-2 weeks). Store at  $\leq -20^{\circ}$ C long term. Avoid

repeated freeze-thaw.

Catalog# / Size GM-87802MAB -1mg / 1 mg

GM-87802MAB-5mg / 5 mg GM-87802MAB-25mg / 25 mg GM-87802MAB-50mg / 50 mg GM-87802MAB-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 PD1

Clone Pembrolizumab

Alternative Names CD279, PD-1, PDCD1, SLEB2, hPD-1, hPD-I, hSLE1

Source/Isotype Monoclonal human IgG4 S228P, kappa

Application /

**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

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

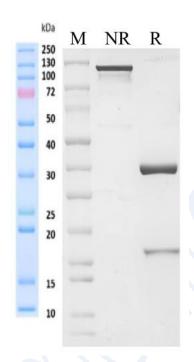
intervention.

**Formulation** 

phosphate-buffered solution, pH 7.4.

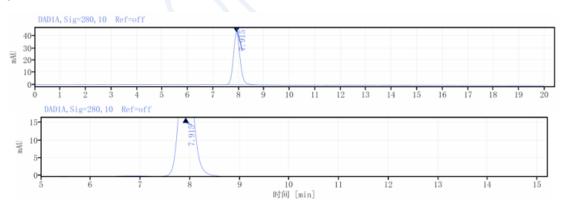
# **Data Examples**

### 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