

# Anti-PD1 hIgG4 Reference Antibody (Sintbio)

## Product Information

|                        |  |
|------------------------|--|
| <b>Product Name</b>    | Anti-PD1 hIgG4 Reference Antibody (Sintbio)  |
| <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> | GM-87755MAB-1mg / 1 mg<br>GM-87755MAB-5mg / 5 mg<br>GM-87755MAB-25mg / 25 mg<br>GM-87755MAB-50mg / 50 mg<br>GM-87755MAB-100mg / 100 mg |

## 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>             | Sintilimab  |
| <b>Alternative Names</b> | CD279, PD-1, PDCD1, SLEB2, hPD-1, hPD-I, hSLE1  |
| <b>Source/Isotype</b>    | Human IgG4 (S228P), Kappa   |
| <b>Application</b>       | /   |
| <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 |

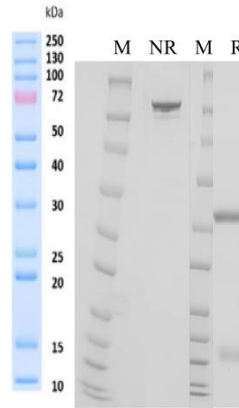
Version:3.1

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

**Formulation** phosphate-buffered solution, pH 7.4.

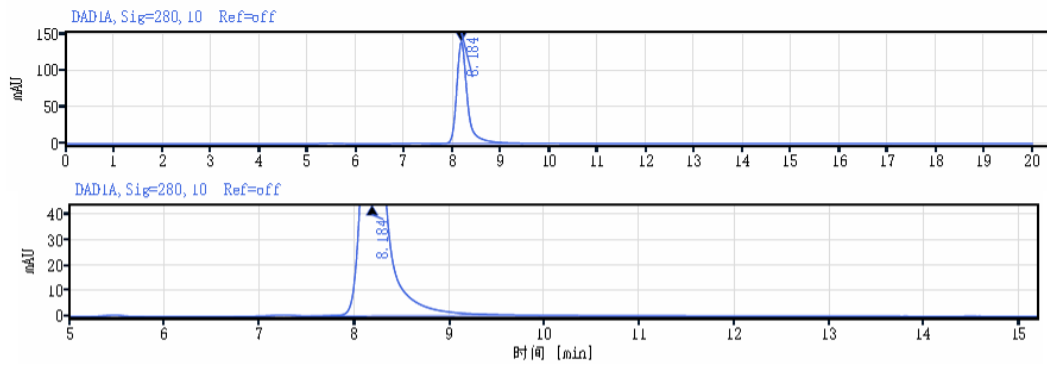
## Data Examples

### 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