Toll-free: 400 627 9288

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Anti-PD1 hlgG4 Antibody(Pembrolizumab)

Product information

GM-52674AB-10 10 μg GM-52674AB-100 100 μg GM-52674AB-1000 1 mg

Antibody Information

Species Reactivity Human; Cynomolgus
Clone Pembrolizumab

Source/Isotype Monoclonal Human IgG4 /κ
Application Flow Cytometry; ELISA; Block

Specificity Detects PD1

Gene PD1

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

Gene ID 5133 (Human); 102123659 (Cynomolgus)

Background 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.

Storage Store at 2-8°C short term (1-2 weeks). Store at ≤ -20°C long term.Avoid

repeated freeze-thaw.

Formulation Phosphate-buffered solution, pH 7.2.

Endotoxin < 1 EU/mg, determined by LAL gel clotting assay

Version:3.2

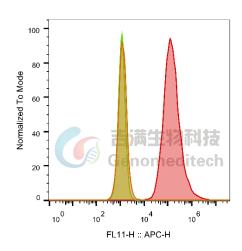
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Data Examples

Flow cytometry

H_PD-1 Reporter CHO-K1 Cell Line was stained with Anti-PD1 hlgG4 Antibody(Pembrolizumab) (Catalog # GM-52674AB) or isotype control antibody, followed by anti-Human lgG APC-conjugated Secondary Antibody.

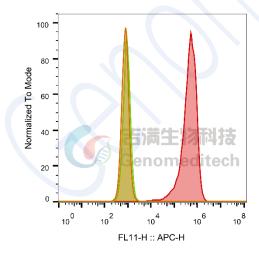


SampleID	Geometric Mean : FL11-H
CHO-K1 anti-PD1+APC-2nd Ab	1296
H_PD-1 Reporter CHO-K1 H_IgG+APC-2nd Ab	1172
H_PD-1 Reporter CHO-K1 anti-PD1+APC-2nd Ab	147946

Fig 1. FACS

Flow cytometry

Cynomolgus_PD1 CHO-K1 Cell Line (Catalog # GM-C19512) was stained with Anti-PD1 hlgG4 Antibody(Pembrolizumab) (Catalog # GM-52674AB) or isotype control antibody, followed by anti-Human lgG APC-conjugated Secondary Antibody.



SampleID	Geometric Mean : FL11-H
CHO-K1 anti-PD1+APC-2nd Ab	791
CHO-K1 Cyno_PD1 H_IgG+APC-2nd Ab	914
CHO-K1 Cyno_PD1 anti-PD1+APC-2nd Ab	4.18E5

Fig 2. FACS



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Bioactivity-Block

Anti-PD1 hlgG4 Antibody(Pembrolizumab) (Catalog # GM-52674AB) stimulated Luminescence of H_PD-1 Reporter Jurkat Cell Line (Catalog # GM-C07928) binded with aAPC(OKT3) PDL1 CHO-K1 Cell Line (Catalog # GM-C05269). EC50 for this effect is 0.8411 µg/mL.

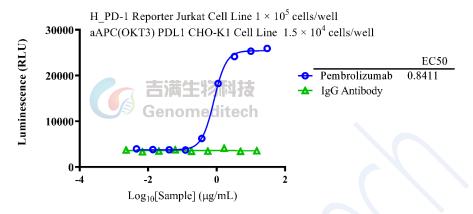


Fig 3. Assay

Bioactivity-ELISA

Biotinylated Human PD1 Protein; His-Avi Tag (Catalog # GM-87594RP) was immobilized at 1 μ g/ml (100 μ L/well) on streptavidin precoated. Increasing concentrations of Anti-PD1 hlgG4 Antibody(Pembrolizumab) (Catalog # GM-52674AB) were added.

Bioactivity-ELISA0.1 µg Biotinylated Human PD1 Protein; His-Avi Tag of per well

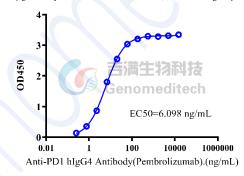


Fig 4. Assay



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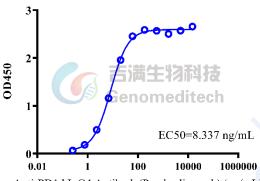
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Bioactivity-ELISA

Human PD1 Protein; His Tag (Catalog # GM-87593RP) was immobilized at 1 μ g/ml (100 μ L/well). Increasing concentrations of Anti-PD1 hlgG4 Antibody(Pembrolizumab) (Catalog # GM-52674AB) were added.

Bioactivity-ELISA

0.1 µg Human PD1 Protein; His Tag of per well



Anti-PD1 hIgG4 Antibody(Pembrolizumab).(ng/mL)

Fig 5. Assay

Version:3.2