

## 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; Activation assay
Specificity	Detects PD1
Gene	PD1
Other Names	CD279, PD-1, PDCD1, SLEB2, hPD-1, hPD-I, hSLE1
Gene ID	5133 (Human)
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 $\leq$ -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

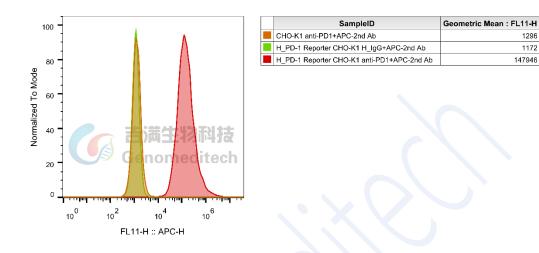
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## **Data Examples**

Flow cytometry

The recommended usage range is 0.5-4  $\mu$ g per test. H\_PD-1 Reporter CHO-K1 Cell Line was stained with Anti-PD1 hIgG4 Antibody(Pembrolizumab) (Catalog # GM-52674AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.





Flow cytometry The recommended usage range is 0.5-4 µg per test. 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 IgG APC-conjugated Secondary Antibody.

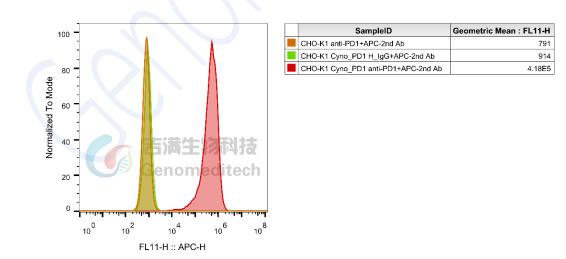


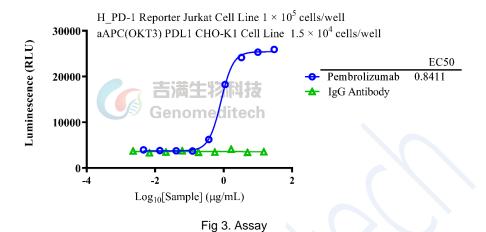
Fig 2. FACS

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Activation assay

Anti-PD1 hIgG4 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.



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