

Anti-mouse_PD1 mIgG1 Antibody(RMP1-14)

Product Information

Product Name	Anti-mouse_PD1 mIgG1 Antibody(RMP1-14)
Storage temp.	Store at 2-8°C short term (1-2 weeks).Store at \leq -20°C long term. Avoid repeated freeze-thaw.
Catalog# / Size	GM-28206AB-1mg / 1 mg GM-28206AB-5mg / 5 mg GM-28206AB-25mg / 25 mg GM-28206AB-50mg / 50 mg GM-28206AB-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 μ m Filtered
Target	PD1
Clone	RMP1-14
Other Names	PD-1; Pdc1; Ly101
Source/Isotype	Monoclonal Mouse IgG1, κ
Application	Flow cytometry; Binding activation: 1.5 ng/mL-100 μ g/mL
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 7.2.

Data Examples

Flow cytometry

M_PDCD1(PD-1) CHO-K1 Cell Line (Catalog # GM-C19255) was stained with Anti-mouse_PD1 mIgG1 Antibody(RMP1-14) (Catalog # GM-28206AB) or isotype control antibody, followed by anti-Mouse IgG FITC-conjugated Secondary Antibody.

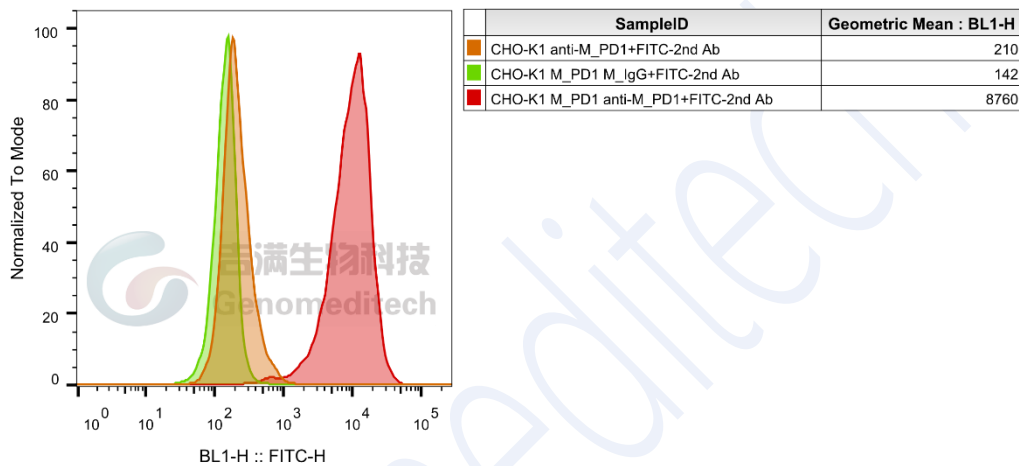


Fig 1. FACS

Mouse Models

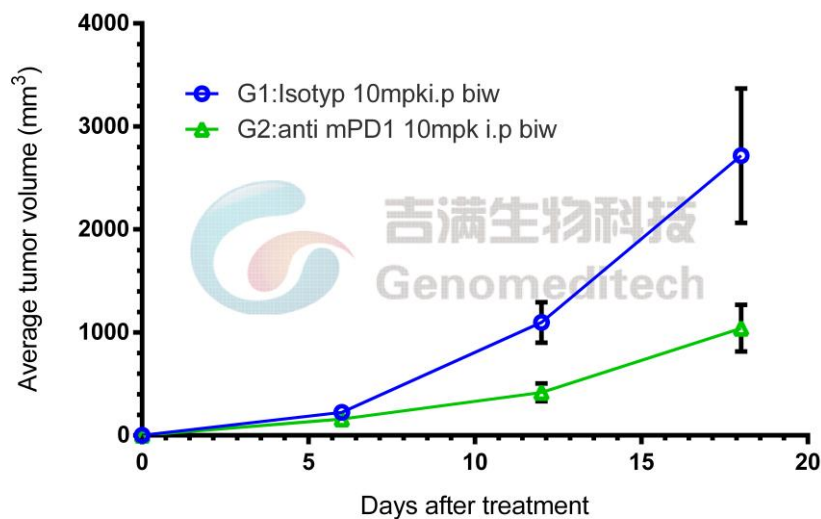


Fig 2. Mouse Tumor-Bearing Models(CT26)

MC38

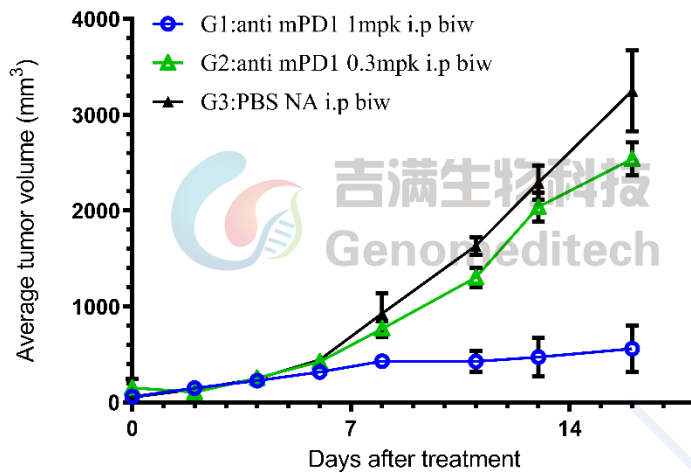
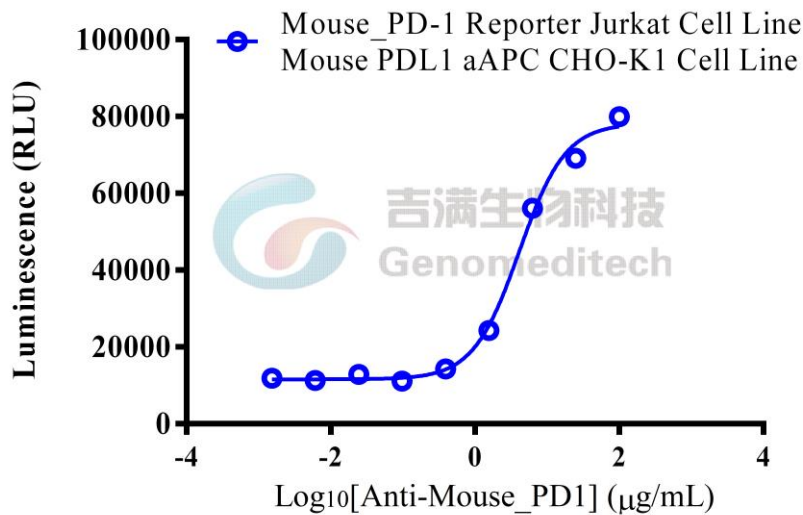


Fig 3. Mouse Tumor-Bearing Models(MC38)

Binding activation

Serial dilutions of Anti-mouse_PD1 mlgG1 Antibody(RMP1-14) (1:4 serial dilutions, from 100 µg/mL to 1.5 ng/mL) (Catalog # GM-28206AB) were added into Mouse_PD-1 Reporter Jurkat Cell Line (Catalog # GM-C25661). Then Mouse_PD-1 Reporter Jurkat Cell Line was binded with Mouse PDL1 aAPC CHO-K1 Cell Line (Catalog # GM-C25791).EC₅₀ for this effect was 4.126 µg/mL.



	M_PD-1 PDL1 Reporter Blockade Assa
EC50	4.126

Fig 4. assay