

Anti-PD1×VEGF hIgG4 Antibody

(20-Fab-0313-IgG4-V94L)

Product information

GM-89053AB-10	10 µg
GM-87951AB-100	100 µg
GM-87951AB-1000	1 mg
GM-87951AB-50 mg	50 mg
GM-87951AB-100 mg	50 mg*2 vials

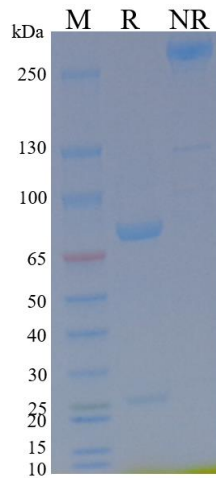
Antibody Information

Species Reactivity	Human
Clone	20-Fab-0313-IgG4-V94L
Source/Isotype	Human IgG4, Kappa
Application	ELISA ; Activation assay
Specificity	Detects PD1;VEGF
Gene	PD1; VEGF
Other Names	PDCD1, CD279, SLEB2; VPF; VEGA; MVCD1; L-VEGF
Gene ID	5133 (human);7422(human)
Background	Anti-PD1×VEGF hIgG4 Antibody (20-Fab-0313-IgG4-V94L) is a bispecific antibody designed to simultaneously target programmed cell death protein 1 (PD-1) and vascular endothelial growth factor (VEGF). This dual-targeting approach synergistically combines immune checkpoint blockade with anti-angiogenic therapy. The antibody utilizes an IgG4 backbone, which is commonly employed in anti-PD-1 immunotherapies to minimize antibody-dependent effector functions. The V94L mutation is a specific modification to the IgG4 Fc region, potentially aimed at mitigating Fc-Fc interactions or other immune inhibitory effects associated with the IgG4 isotype, which could otherwise lead to therapeutic resistance. By blocking both pathways, this antibody seeks to overcome the limitations of combined single-agent therapies, such as differing pharmacokinetics, and aims to enhance anti-tumor immunity while reducing immunosuppression from the tumor microenvironment.
Storage	Store at 2-8°C short term (1-2 weeks). Store at ≤ -20°C long term. Avoid repeated freeze-thaw.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Histidine, 0.4 mg/mL Polysorbate 80, 90 mg/mL Trehalose, pH 5.3.
Endotoxin	< 1 EU/mg, determined by LAL gel clotting assay

Version:3.1

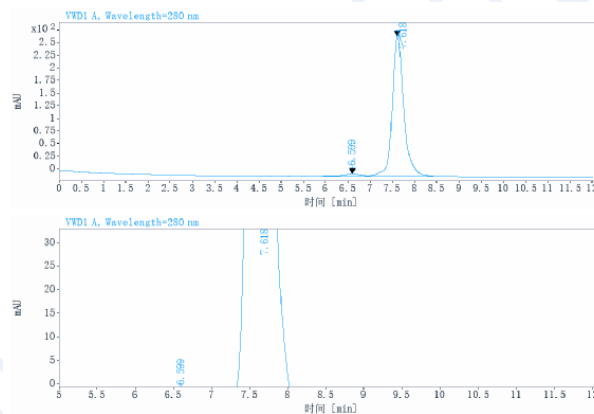
Data Examples

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.

Bioactivity-ELISA

Human PD1 Protein; His Tag (Catalog #GM-87593RP) was immobilized at 1 µg/ml (100 µL/well). Increasing concentrations of Anti-PD1×VEGF hIgG4 Antibody (20-Fab-0313-IgG4-V94L) (Catalog # GM-89053AB) were added.

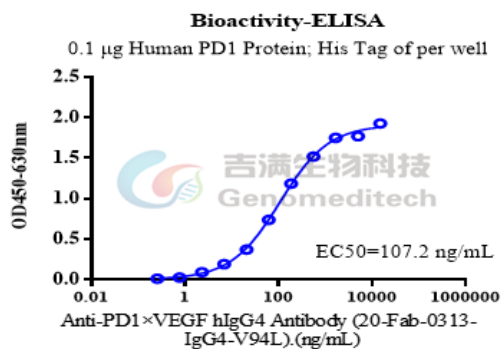


Fig. ELISA

Version:3.1

Bioactivity-ELISA

Human VEGF165 Protein; His Tag (Catalog #GM-88072RP) was immobilized at 1 µg/ml (100 µL/well). Increasing concentrations of Anti-PD1×VEGF hIgG4 Antibody (20-Fab-0313-IgG4-V94L) (Catalog # GM-89053AB) were added.

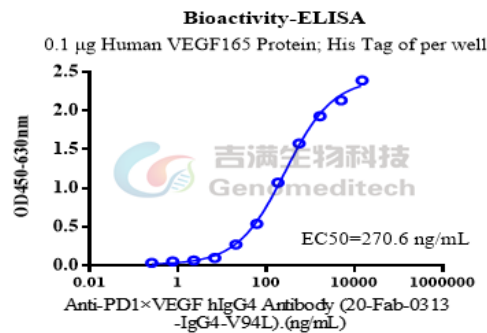


Fig. ELISA

Activation assay

Anti-PD1×VEGF hIgG4 Antibody (20-Fab-0313-IgG4-V94L) (Catalog # GM-89053AB) inhibits H_VEGF Reporter 293 Cell Line (Catalog # GM-C09057) Luminescence induced by Human VEGF165 Protein; His Tag(Catalog # GM-88072RP). IC50 for this effect is 61.79 ng/ml.

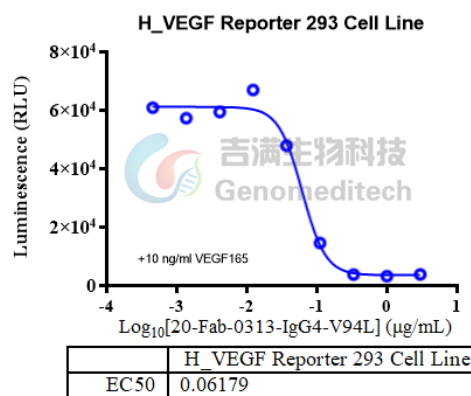


Fig. assay