

Anti-TNFRSF9(4-1BB) hIgG4 Reference Antibody (Urelbio)

Product Information

Product Name	Anti-TNFRSF9(4-1BB) hIgG4 Reference Antibody (Urelbio)
Storage temp.	Store at 2-8°C short term (1-2 weeks).Store at ≤ -20°C long term. Avoid repeated freeze-thaw.
Catalog# / Size	GM-87876MAB-1mg / 1 mg GM-87876MAB-5mg / 5 mg GM-87876MAB-25mg / 25 mg GM-87876MAB-50mg / 50 mg GM-87876MAB-100mg / 100 mg

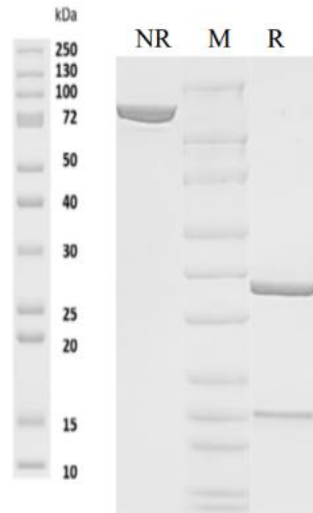
Antibody Information

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 μm Filtered
Target	TNFRSF9
Clone	Urelumab
Alternative Names	4-1BB, A930040I11Rik, CDw137, Cd137, ILA, Ly63
Source/Isotype	Monoclonal Human IgG4(S228P), Kappa
Application	Activation assay; Flow cytometry
Description	4-1BB (CD137) is a co-stimulatory molecule belonging to the tumor necrosis factor receptor (TNFR) superfamily. It is primarily expressed on activated T cells, natural killer (NK) cells, and other immune cells. Its ligand, 4-1BBL (CD137L), is mainly expressed on antigen-presenting cells (APCs) such as dendritic cells and macrophages. 4-1BB plays a critical role in the immune system, particularly in regulating T cell activation, proliferation, and survival. Urelumab binds to 4-1BB and activates the co-stimulatory signaling of T cells and NK cells, thereby enhancing anti-tumor immune responses. As a representative 4-1BB agonist, Urelumab has shown significant potential in boosting anti-tumor immune responses, despite being limited by toxicity issues in early studies.
Formulation	phosphate-buffered solution, pH 7.4.

Version:3.1

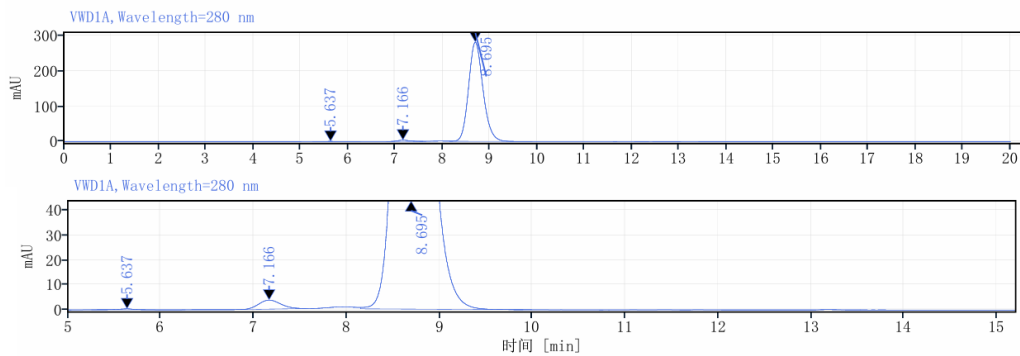
Data Examples

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

Activation assay

Anti-TNFRSF9(4-1BB) hIgG4 Reference Antibody (Urelbio) (Catalog # GM-87876MAB) stimulates H_TNFRSF9(4-1BB) Reporter 293 Cell line (Catalog # GM-C04832) Luminescence. EC50 for this effect is 0.8351 $\mu\text{g}/\text{mL}$.

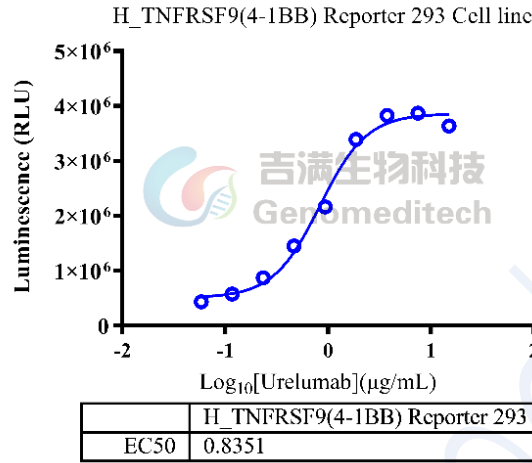


Fig. Assay

Flow cytometry

H_TNFRSF9(4-1BB) Reporter 293 Cell line (Catalog # GM-C04832) was stained with Anti-TNFRSF9(4-1BB) hIgG4 Reference Antibody (Urelbio) (Catalog # GM-87876MAB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.

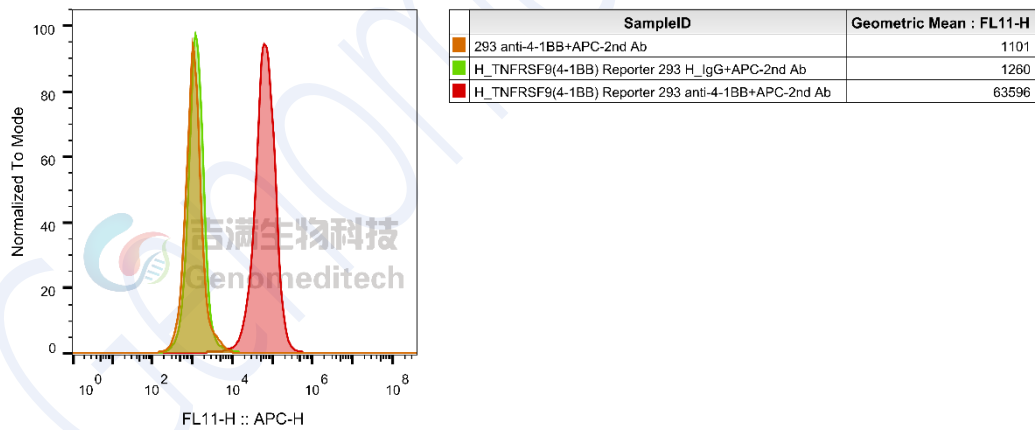


Fig. FACS