

Anti-CD40L hIgG1 Reference Antibody (Frebio)

Product Information

Product Name	Anti-CD40L hIgG1 Reference Antibody (Frebio)
Storage temp.	Store at 2-8°C short term (1-2 weeks).Store at $\leq -20^{\circ}\text{C}$ long term. Avoid repeated freeze-thaw.
Catalog# / Size	GM-87982MAB-1mg / 1 mg GM-87982MAB-5mg / 5 mg GM-87982MAB-25mg / 5 mg * 5 vials GM-87982MAB-50mg / 50 mg GM-87982MAB-100mg / 50 mg * 2 vials

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	CD40L
Clone	Frexalimab
Alternative Names	CD154, CD40LG, HIGM1, IGM, IMD3, T-BAM, TNFSF5, TRAP, gp39, hCD40L
Source/Isotype	Monoclonal human IgG1(A215V E269R K322A), Kappa
Application	Flow cytometry; Bioactivity-ELISA
Description	IL-31RA (Interleukin-31 receptor α) gene encodes the specific receptor for interleukin-31 (IL-31). IL-31 is a cytokine secreted by immune cells such as Th2 cells, playing a critical role in regulating immune responses and inflammation, particularly in the skin immune microenvironment and neuro-immune interactions. It binds to the heterodimeric receptor formed by IL-31RA and IL-31RB, activating the JAK1/STAT3 signal transduction pathway, driving Th2-type inflammatory responses and mediating pathological processes such as itching. Frexalimab, a humanized monoclonal antibody, specifically targets IL-31RA by binding with high affinity to its extracellular epitope, blocking the interaction between the IL-31 cytokine and its receptor, thereby inhibiting downstream pro-inflammatory signaling. This mechanism can significantly alleviate Th2-

Version:3.2

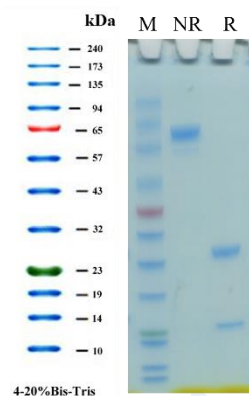
type immune-mediated inflammatory responses, such as skin redness, exudation, and severe itching in atopic dermatitis (AD), as well as eosinophilic infiltration and mucus hypersecretion in asthma.

Formulation

phosphate-buffered solution, pH 7.2-7.4.

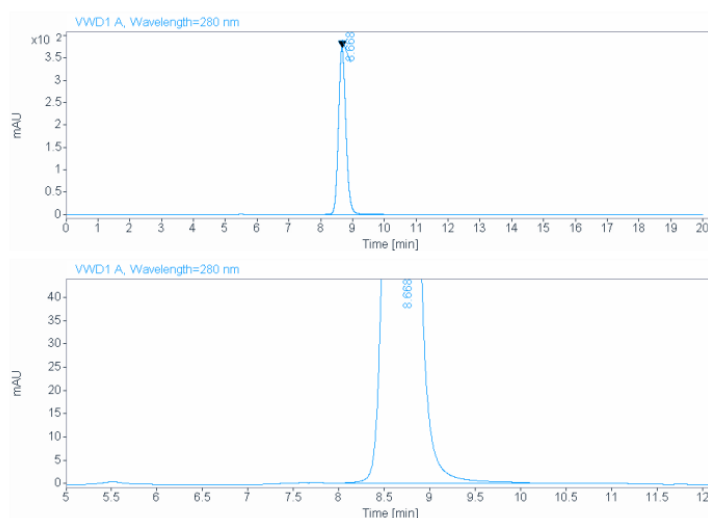
Data Examples

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%.

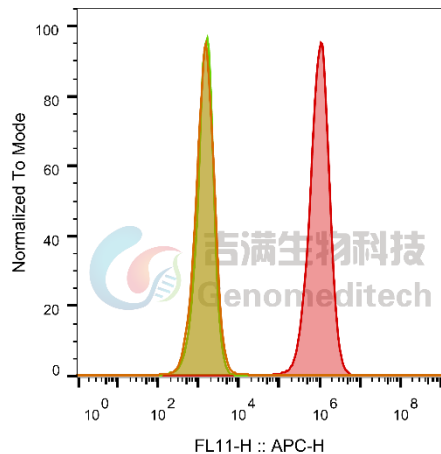
SEC-HPLC



The purity of this product is more than 95% verified by SEC-HPLC

Flow cytometry

Cynomolgus_CD40L CHO-K1 Cell Line (Catalog # GM-C35533) was stained with Anti-CD40L hlgG1 Reference Antibody (Frebio) (Catalog # GM-87982MAB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.



SampleID	Geometric Mean : FL11-H
CHO-K1 anti-CD40L+APC-2nd Ab	1455
CHO-K1 Cyno_CD40L H_IgG+APC-2nd Ab	1465
CHO-K1 Cyno_CD40L anti-CD40L+APC-2nd Ab	9.53E5

Fig. FACS

Bioactivity-ELISA

Human CD40L Protein; His Tag (Catalog # GM-84919RP) was immobilized at 1 µg/ml (100 µL/well). Increasing concentrations of Anti-CD40L hlgG1 Reference Antibody (Frebio)(Catalog # GM- GM-87982MAB) were added.

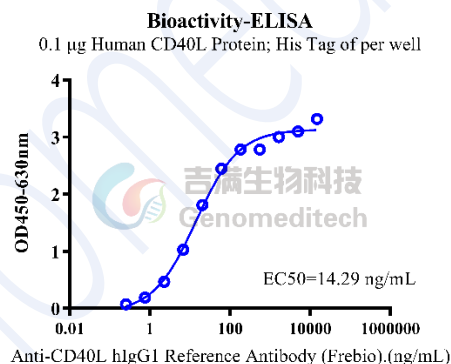


Fig. Assay