

Anti-IL-4R \times IL31 hlgG4 Reference Antibody (PRO2198)

Product Information

Product Name Anti-IL-4R \times IL31 hlgG4 Reference Antibody (PRO2198)
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-88058MAB-1mg / 1 mg**
GM-88058MAB-5mg / 5 mg
GM-88058MAB-25mg / 5 mg*5 vials
GM-88058MAB-50mg / 50 mg
GM-88058MAB-100mg / 50 mg*2 vials

Antibody Information

Expression System CHO
Aggregation < 5% as determined by SEC-HPLC
Purity > 95% as determined by SDS-PAGE
Sterility 0.22 μ m Filtered
Clone PRO2198
Source/Isotype Human IgG4 (S228P),Kappa
Application Bioactivity-ELISA
Specificity Detects IL-4R、IL31
Gene IL-4R&IL31
Other Names IL-4R: CD124,IL4RA
IL31: IL-31, IL31, Interleukin-31
Gene ID IL-4R: 3566 (human)
IL31: 86653 (human)
Background The genetic research background of IL-4R versus IL-31 stems from its central pathological role in Th2-type immune diseases such as atopic dermatitis: IL-4R α as a key mediator of IL-4 and Il-13 signaling pathways, IL-4R α as a key mediator of IL-4 and Il-13 signaling pathways, IL-4R as a key mediator of Il-13 signaling, and IL-3R as a key mediator of Il-13 signaling, by activating downstream cascades such as Jak/STAT, which drive inflammatory factor release with skin barrier dysfunction; whereas IL-31 is secreted by activated Th2 cells, by binding to its receptor IL-31RA/OSMR β complex, IL-31RA/OSMR β is released by activated Th2 cells, direct activation of sensory neurons cause severe itching, the formation of "Inflammation-itching-scratching" vicious cycle. The sustained

Version:3.1

activation of il-4 α can induce the expression of IL-31, and then amplify the immune inflammatory response.

Formulation

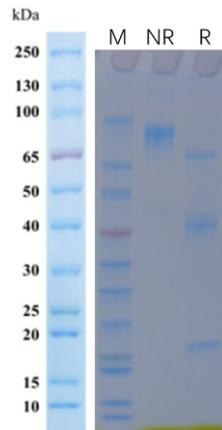
Phosphate-buffered solution, pH 7.2-7.4.

Endotoxin

< 1 EU/mg, determined by LAL gel clotting assay

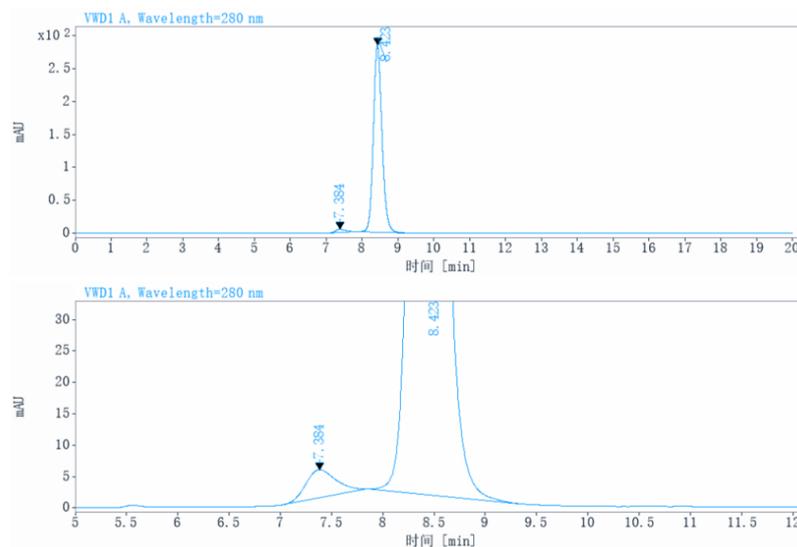
Data Examples

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 IL-31 Protein; His Tag(Catalog # GM-88062RP) was immobilized at 2 $\mu\text{g/ml}$ (100 $\mu\text{L/well}$) on Anti-His mIgG2a Antibody (Catalog # GM-59493AB) (0.6 $\mu\text{g/well}$) precoated. Increasing concentrations of Anti IL-4R \times IL31 hIgG4 Reference Antibody (PRO2198) (Catalog # GM-88058MAB) were added.

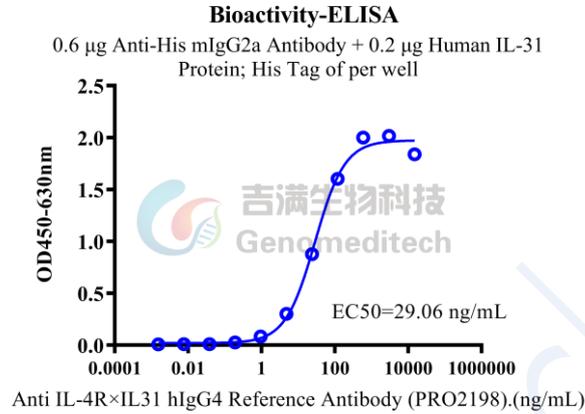


Fig. ELISA

Bioactivity-ELISA

Human IL-4R alpha Protein; His Tag (Catalog # GM-87880RP) was immobilized at 2 $\mu\text{g/ml}$ (100 $\mu\text{L/well}$) on Anti-His mIgG2a Antibody (Catalog # GM-59493AB) (0.6 $\mu\text{g/well}$) precoated. Increasing concentrations of Anti IL-4R \times IL31 hIgG4 Reference Antibody (PRO2198) (Catalog # GM-88058MAB) were added.

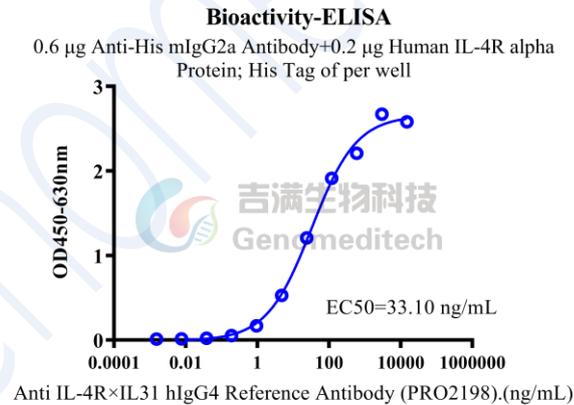


Fig. ELISA