

Anti-IL13 hlgG4 Reference Antibody (Lebribio)

Product Information

Product Name	Anti-IL13 hlgG4 Reference Antibody (Lebribio)
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-88031MAB-1mg / 1 mg
	GM-88031MAB-5mg / 5 mg
	GM-88031MAB-25mg / 5 mg*5 vials
	GM-88031MAB-50mg / 50 mg
	GM-88031MAB-100mg / 50 mg*2 vials

Antibody Information

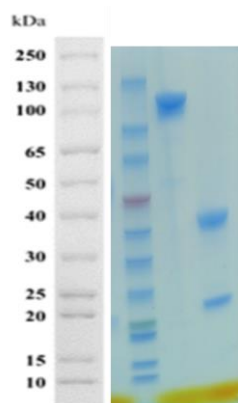
Expression System	CHO
Aggregation	< 5% as determined by SEC-HPLC
Purity	> 95% as determined by SDS-PAGE
Species Reactivity	Human
Clone	lebrikizumab
Source/Isotype	hlgG4 (S228P), Kappa
Application	Bioactivity-ELISA
Specificity	Detects IL13
Gene	IL13
Other Names	IL-13, P600
Gene ID	3596 (human); 9541(Cynomolgus)
Background	<p>IL-13 is a pleiotropic cytokine produced mainly by Th2 cells, ILC2s, mast cells, and eosinophils. It signals through the IL-4Rα chain, often in conjunction with the γc or IL-13Rα1, activating downstream pathways such as STAT6, driving type 2 immune responses, promoting IgE class switching, mucus production, airway hyperresponsiveness, eosinophilic inflammation, and tissue remodeling. IL-13 is closely involved in the pathogenesis of diseases such as asthma and allergic rhinitis and certain fibrotic states, and it also participates in defense against parasites.</p> <p>The IL-13 gene is located in a region with upstream and downstream shared elements, and its expression is regulated by transcription factors responsive to Th2-skewing signals, such as GATA3 and STAT6. IL-13 signaling can be regulated by receptor availability, soluble decoys, and genetic variants that affect receptor binding or expression. Therapeutic strategies targeting IL-13 or its signaling axis (for example, monoclonal antibodies against IL-13 or IL-4Rα) have shown efficacy in reducing mucus hypersecretion, airway inflammation, and remodeling in various</p>

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	allergic diseases, highlighting the key role of IL-13 in type II (Type 2) immunity.
Storage	Store at 2-8°C short term (1-2 weeks). Store at $\leq -20^{\circ}\text{C}$ long term. Avoid repeated freeze-thaw.
Formulation	Phosphate-buffered solution, pH 7.2-7.4.
Endotoxin	< 1 EU/mg, determined by LAL gel clotting assay

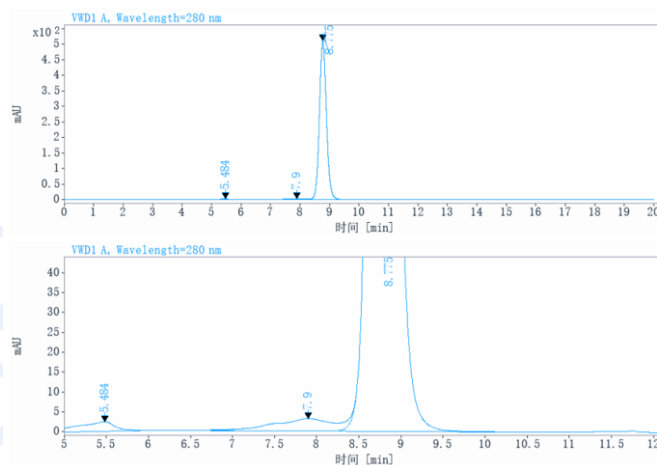
Data Examples

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-13 Protein; His Tag (Catalog # GM-88040RP) was immobilized at 5 µg/ml (100 µL/well) on Anti-His mIgG2a Antibody (Catalog # GM-59493AB) (0.6 µg/well) precoated. Increasing concentrations of Anti-IL13 hIgG4 Reference Antibody (Lebribo) (Catalog # GM-88031MAB) were added.

Bioactivity-ELISA

0.6 µg Anti-His mIgG2a Antibody+0.5 µg Human IL-13 Protein; His Tag of per well

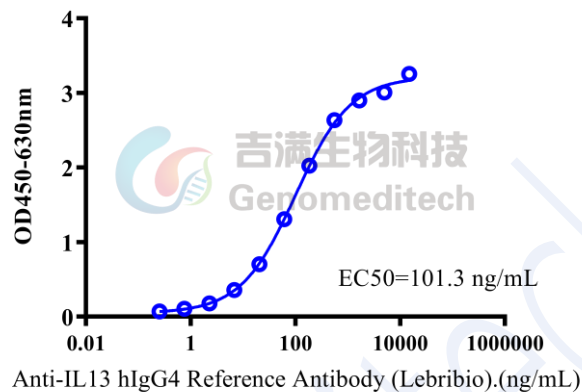


Fig. Assay

Bioactivity-ELISA

Cynomolgus IL-13 Protein; His Tag (Catalog # GM-88165RP) was immobilized at 5 µg/ml (100 µL/well) on Anti-His mIgG2a Antibody (Catalog # GM-59493AB) (0.6 µg/well) precoated. Increasing concentrations of Anti-IL13 hIgG4 Reference Antibody (Lebribo) (Catalog # GM-88031MAB) were added.

Bioactivity-ELISA

0.6 µg Anti-His mIgG2a Antibody+0.5 µg Cynomolgus IL-13 Protein; His Tag of per well

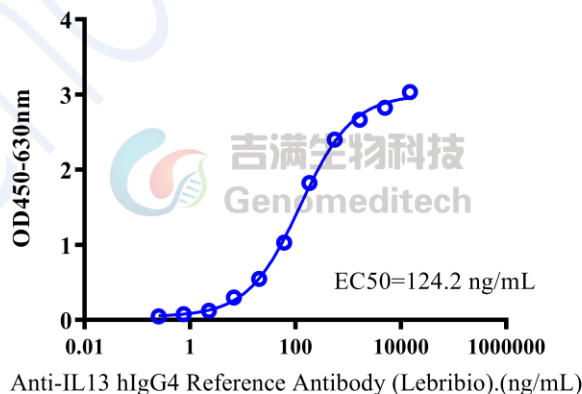


Fig. Assay