Toll-free: 400 627 9288

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Anti-IL-31 hlgG4 Reference Antibody (BMS-981164)

Product Information

Product Name Anti-IL-31 hlgG4 Reference Antibody (BMS-981164)

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-88056MAB-1mg / 1 mg

GM-88056MAB-5mg / 5 mg

GM-88056MAB-25mg / 5 mg*5 vials

GM-88056MAB-50mg / 50 mg

GM-88056MAB-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 BMS-981164 Clone

Source/Isotype Human IgG4(S228P), kappa

Application Bioactivity-ELISA Specificity Detects IL-31

Gene IL-31

Other Names

Gene ID 386653 (human)

Background IL-31 is a cytokine belonging to the IL-6 family-related chemokine lineage,

> encoding a precursor protein that is secreted into an active form after splicing. It is regulated by inflammatory signals and barrier damage, etc., the promoter region is regulated by STAT, NF-kb and other pathways, and there may be tissue-specific splice variants. IL-31 is mainly expressed in skin-associated immune cells (such as Th2 cells, mast cells, dendritic cell, etc.) and epithelial cells, with systemic baseline expression but higher in local inflammatory sites; It is closely related to inflammatory environment, barrier damage, infection and allergic reaction. Its function is to form a heterodimer with the receptor IL-31RA and co-receptor OSMR β, which activates Jak/STAT, MAPK and other signaling pathways, it promotes proinflammatory response, cell proliferation and differentiation, as well as neuro-immune coupling and itch signaling, and participates in pathological processes such as eczema/atopic dermatitis and chronic pruritus. In terms of drug development, targets can be IL-31 ontology, IL-31RA or OSMR β,

> > Version:3.1



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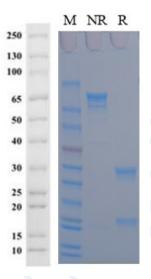
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and antibody drugs need to take into account cross-species differences, structure-function relationships, and coordinated regulation of local and systemic inflammation in the skin, and combined with biomarkers to achieve patient stratification treatment.

Formulation Phosphate-buffered solution, pH 7.2-7.4.

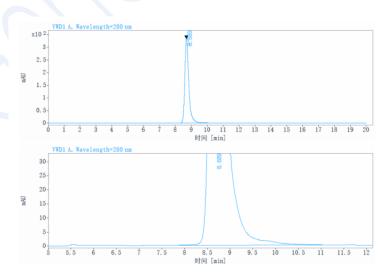
Endotoxin < 1 EU/mg, determined by LAL gel clotting assay

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

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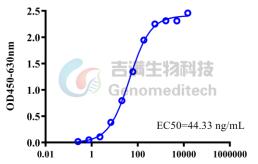
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Bioactivity-ELISA

Human IL-31 Protein; His Tag (Catalog # GM-88062RP) was immobilized at 2 μ g/ml (100 μ L/well) on Anti-His mIgG2a Antibody (Catalog # GM-59493AB) (0.6 μ g/well) precoated. Increasing concentrations of Anti-IL-31 hIgG4 Reference Antibody (BMS-981164) (Catalog # GM-88056MAB) were added.

Bioactivity-ELISA

 $0.6~\mu g$ Anti-His mIgG2a Antibody + $0.2~\mu g$ Human IL-31 Protein; His Tag of per well



Anti-IL-31 hIgG4 Reference Antibody (BMS-981164).(ng/mL)

Fig. Assay