

Anti-IL31RA hlgG2 Reference Antibody (Nemobio)

Product Information

Product Name Anti-IL31RA hlgG2 Reference Antibody (Nemobio)
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-88053MAB-1mg / 1 mg
GM-88053MAB-5mg / 5 mg
GM-88053MAB-25mg / 5 mg*5 vials
GM-88053MAB-50mg / 50 mg
GM-88053MAB-100mg / 50 mg*2 vials

Antibody Information

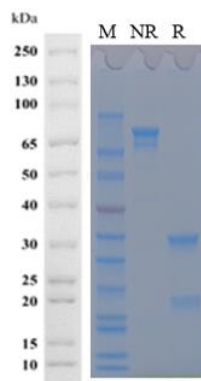
Expression System CHO
Aggregation < 5% as determined by SEC-HPLC
Purity > 95% as determined by SDS-PAGE
Species Reactivity Human
Clone Nemolizumab
Source/Isotype hlgG2, Kappa
Application Bioactivity-ELISA
Specificity Detects IL31RA
Gene IL31RA
Other Names CRL, CRL3, GLM-R, GLMR, GPL, IL-31RA, PLCA2, PRO21384, hGLM-R, zcytoR17
Gene ID 133396 (human)
Background IL-31 is a cytokine that is initially produced by activated T cells, especially Th2 cells, and is closely related to pathological processes such as inflammatory skin diseases and pruritus. The IL-31 receptor complex consists of two major components: the cell-surface receptor IL-31RA (aka IL-31 receptor α) and the signaling transmembrane protein Oncostatin m receptor-like subunit (OSMR, also known as part of the LGR1/ β c receptor) . After the formation of functional complexes, they can trigger inflammatory response and neuro-immune coupling by downstream signaling pathways (such as Jak/Stat, MAPK, PI3K-AKT, etc.) , and promote itch transmission and inflammatory response. The IL-31/IL-31RA pathway is widely recognized to play a central role in pruritus and inflammation in multiple skin diseases, especially in eczema (atopic dermatitis, AD) and certain chronic inflammatory skin diseases. Nemolizuma is a monoclonal antibody that targets IL-31RA. By blocking

Version:3.1

	the binding of IL-31 to IL-31RA, downstream signaling pathways are inhibited, thereby alleviating itching and inflammatory responses.
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

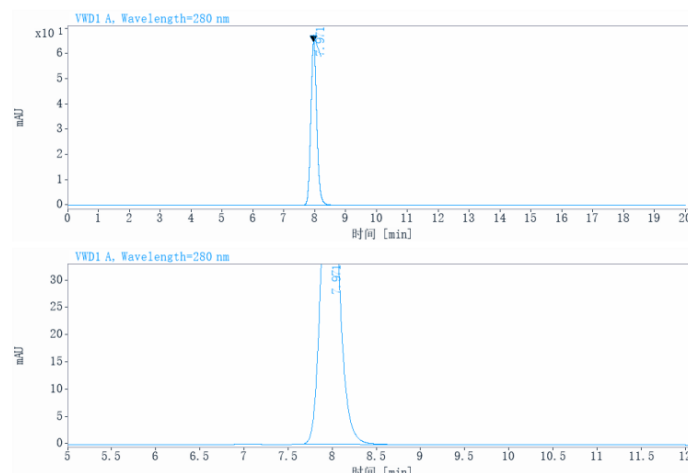
Data Examples

SDS-PAGE



On SDS-PAGE under reducing (R)/non-reducing(N-R) condition. The 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-31RA Protein; hFc Tag (Catalog # GM-88092RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-IL31RA hIgG2 Reference Antibody (Nemobio) (Catalog # GM-88053MAB) were added.

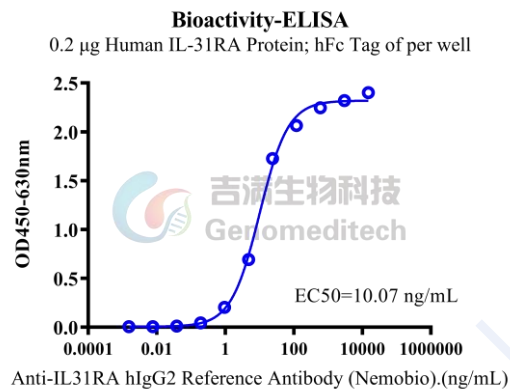


Fig. Assay