

Anti-IL-31Ra Reference Antibody (nemolizumab)

Recombinant Antibody
Catalog # APR10127

Product Information

Application	FC, Kinetics, Animal Model
Primary Accession	Q8NI17
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2SA
Calculated MW	82954

Additional Information

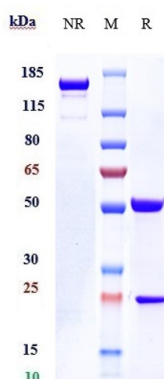
Target/Specificity	IL-31Ra
Endotoxin Conjugation	Unconjugated
Expression system	CHO Cell
Format	Purified monoclonal antibody supplied in PBS, pH6.0, without preservative. This antibody is purified through a protein A column.

Protein Information

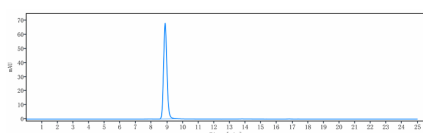
Name	IL31RA
Synonyms	CRL3, GPL
Function	Associates with OSMR to form the interleukin-31 receptor which activates STAT3 and to a lower extent STAT1 and STAT5 (PubMed: 11877449 , PubMed: 14504285 , PubMed: 15194700 , PubMed: 15627637). May function in skin immunity (PubMed: 15184896). Mediates IL31-induced itch, probably in a manner dependent on cation channels TRPA1 and TRPV1 (By similarity). Positively regulates numbers and cycling status of immature subsets of myeloid progenitor cells in bone marrow in vivo and enhances myeloid progenitor cell survival in vitro (By similarity).
Cellular Location	Cell membrane; Single-pass type I membrane protein. Presynaptic cell membrane {ECO:0000250 UniProtKB:Q8K5B1}. Cell projection, axon {ECO:0000250 UniProtKB:Q8K5B1}
Tissue Location	Expressed in CD14- and CD56-positive blood cells (PubMed:11877449). Expressed in macrophages (PubMed:16461143, PubMed:18439099). Expressed in keratinocytes (PubMed:21261663) Expressed in a subset of dorsal root ganglia neurons (at protein level) (PubMed:24373353). Expressed

at low levels in testis, ovary, brain, prostate, placenta, thymus, bone marrow, trachea and skin (PubMed:11877449, PubMed:14504285, PubMed:15184896). Expressed in bronchial and alveolar epithelial cells and pulmonary fibroblasts (PubMed:18439099). Detected in all of the myelomonocytic lineage (PubMed:14504285). Isoform 6: Expressed at higher levels in lesional skin compared to healthy skin of atopic dermatitis patients (PubMed:24373353).

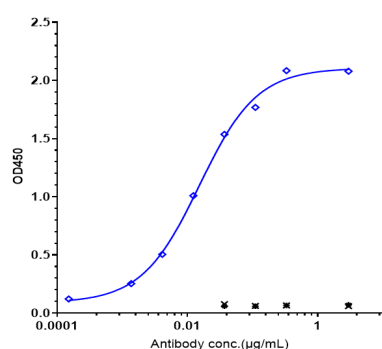
Images



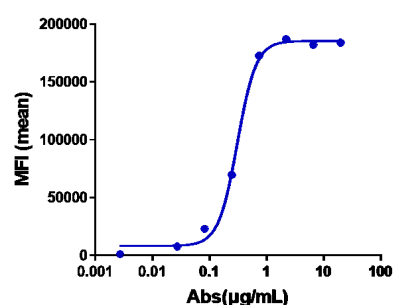
Anti-IL-31Ra Reference Antibody (nemolizumab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



The purity of Anti-IL-31Ra Reference Antibody (nemolizumab) is more than 100%, determined by SEC-HPLC.

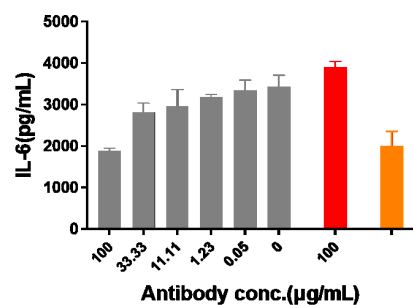
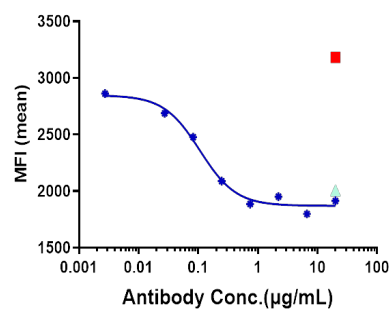


Immobilized human IL31R His at 2 µg/mL can bind Anti-IL-31Ra Reference Antibody (nemolizumab), $EC_{50}=0.0153$ µg/mL



Human IL31R HEK293 cells were stained with Anti-IL-31Ra Reference Antibody (nemolizumab) and negative control protein respectively, washed and then followed by PE and analyzed with FACS, $EC_{181}=0.307$ µg/mL

Anti-IL-31Ra Reference Antibody (nemolizumab) P-STAT3 Assay was evaluated using Du145. The IC_{50} was approximately 0.1068 µg/mL.



Anti-IL-31Ra Reference Antibody (nemolizumab)
Activation inhibition was evaluated using Hacat. The max induction fold was approximately 1.86.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.