

Datasheet for ABIN7275018  
**IL31RA Protein (AA 20-519) (His tag)**

## 5 Images

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## Overview

Quantity:	100 µg
Target:	IL31RA
Protein Characteristics:	AA 20-519
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL31RA protein is labelled with His tag.

## Product Details

Purpose:	Human IL-31 RA Protein
Sequence:	Ala20-Glu519
Characteristics:	Recombinant Human IL-31 RA Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ala20-Glu519.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human IL-31 RA, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-IL-31 RA Antibody, hFc Tag with the EC50 of 6.5ng/ml determined by ELISA. The affinity constant of 82.4nM as determined in SPR assay (Biacore T200). See testing image for detail.

## Target Details

Target:	IL31RA
Alternative Name:	IL-31 RA ( <a href="#">IL31RA Products</a> )
Background:	Interleukin-31 receptor A (IL-31RA) is a newly identified type I cytokine receptor, that is related to gp130, the common receptor of the interleukin (IL) -6 family cytokines. IL-31RA forms a functional receptor complex for IL-31 together with the beta subunit of oncostatin M receptor (OSMRbeta). OSMRbeta is expressed in a subset of small-sized nociceptive neurons of adult dorsal root ganglia (DRGs).IL-31 and OSM may thus have redundant functions in the development of OSMRbeta-expressing neurons.
Molecular Weight:	58.2 kDa. Due to glycosylation, the protein migrates to 90-116 kDa based on Tris-Bis PAGE result.

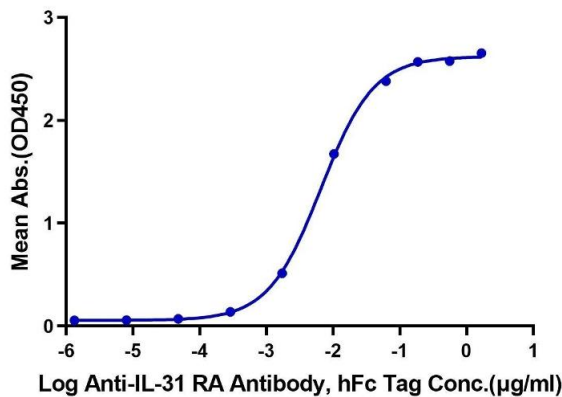
## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS ( pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

**Human IL-31 RA, His Tag ELISA**  
0.05µg Human IL-31 RA, His Tag Per Well



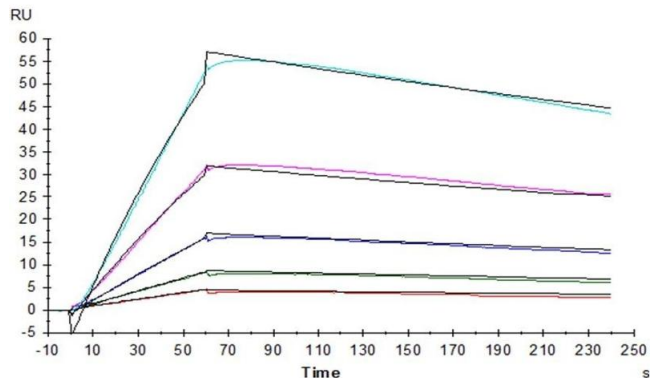
### ELISA

**Image 1.** Immobilized Human IL-31 RA, His Tag at 0.5 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-IL-31 RA Antibody, hFc Tag with the EC<sub>50</sub> of 6.5 ng/mL determined by ELISA.



### SDS-PAGE

**Image 2.** Human IL-31 RA on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



### Surface Plasmon Resonance

**Image 3.** Human IL-31, His Tag immobilized on CM5 Chip can bind Human IL-31 RA, His Tag with an affinity constant of 82.4nM as determined in a SPR assay (Biacore T200).

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN7275018.