



# Human Anti-Human IL-31RA (Nemolizumab) Monoclonal antibody, clone Nemolizumab (CABT-CS584)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Specificity</b>	IL31RA
<b>Target</b>	IL31RA
<b>Isotype</b>	IgG4
<b>Source/Host</b>	Human
<b>Species Reactivity</b>	Human
<b>Clone</b>	Nemolizumab
<b>Purification</b>	Protein A
<b>Conjugate</b>	unconjugated
<b>Applications</b>	ELISA
<b>Format</b>	Liquid
<b>Size</b>	1 mg
<b>Buffer</b>	PBS, pH 7.4. Contains no stabilizers or preservatives
<b>Preservative</b>	None
<b>Storage</b>	2 weeks, 2-8°C under sterile conditions after reconstitution. Avoid repeated freeze-thaw. -80°C for a long-term storage.

# BACKGROUND

## Introduction

IL-31 is a T cell cytokine that is preferentially produced by T helper type 2 cells. IL-31 signals through a heterodimeric receptor composed of the IL-31 receptor (IL-31R) and the oncostatin M receptor (OSM). This receptor complex recruits JAK1, JAK2, Stat1, Stat3 and Stat5 signaling pathways, as well as the PI3 kinase/AKT cascade. SHP-2 and Shc adapter molecules are also recruited and contribute to an increased activation of the MAP kinase pathway in response to IL-31. Overexpression of IL-31 in mice results in pruritus and skin dermatitis resembling human atopic dermatitis (AD).

## Keywords

IL31RA; IL-31RA; interleukin 31 receptor A; GPL; CRL3; GLMR; GLM-R; PLCA2