

Datasheet for ABIN7013665

**IL13RA2 Protein (AA 27-343) (His tag,AVI tag,Biotin)**[Go to Product page](#)**2** Images

## Overview

Quantity:	200 µg
Target:	IL13RA2
Protein Characteristics:	AA 27-343
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL13RA2 protein is labelled with His tag,AVI tag,Biotin.

## Product Details

Purpose:	Biotinylated Human IL-13 R alpha 2 Protein, His,Avitag™ (MALS verified)
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

## Target Details

Target:	IL13RA2
Alternative Name:	IL-13 R alpha 2 ( <a href="#">IL13RA2 Products</a> )
Background:	Interleukin-13 receptor subunit alpha-2 is also known as IL13Ra2, IL13Ra2 cluster of

## Target Details

differentiation 213A2, CD213A2, CT19, IL-13R, IL13BP, and is a membrane bound protein that in humans is encoded by the IL13RA2 gene. IL13Ra2 is closely related to IL13Ra1, a subunit of the interleukin-13 receptor complex. This protein binds IL13 with high affinity, but lacks any significant cytoplasmic domain, and does not appear to function as a signal mediator. It is, however able to regulate the effects of both IL13 and IL4, despite the fact it is unable to bind directly to the latter. It is also reported to play a role in the internalization of IL13. IL13Ra2 is a component of the cell surface receptors, however, the majority exists in intracellular pools and in soluble form, and thus plays an opposite role as a potent IL13 antagonist compared with IL13Ra1. It also functions as an inhibitor of IL4-dependent pathway probably through the physical interaction between the short intracellular domain of and cytoplasmic domain of IL13R  $\alpha$ 2 and the IL4Ra chain. In spite of the failed STAT signaling function, IL13Ra2 dose induce TGF-beta production and fibrosis. Additionally, IL13Ra2 has been reported to be abundantly and specifically overexpressed in glioblastoma multiforme.

Molecular Weight: 40.7 kDa

NCBI Accession: [NP\\_000631](#)

## Application Details

Comment: Ready-to-use Avitag™ biotinylated protein:

The product is exclusively produced using the Avitag™ technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.

This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.

Restrictions: For Research Use only

## Handling

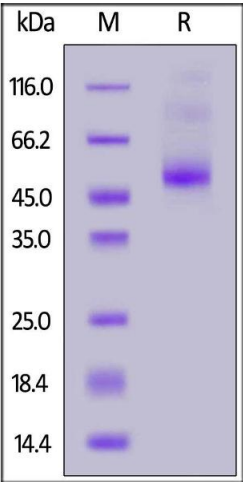
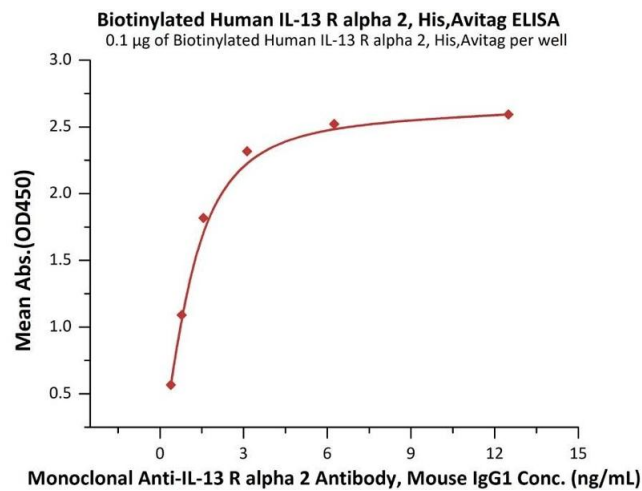
Format: Lyophilized

Buffer: PBS, pH 7.4

Handling

Storage: -20 °C

Images



ELISA

**Image 1.** Immobilized Biotinylated Human IL-13 R alpha 2, His,Avitag (ABIN6992336) at 1 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate can bind Monoclonal Anti-IL-13 R alpha 2 Antibody, Mouse IgG1 with a linear range of 0.4-2 ng/mL (QC tested).

SDS-PAGE

**Image 2.** Biotinylated Human IL-13 R alpha 2, His,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .