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Datasheet for ABIN6731243

CD25 Protein (AA 22-213) (His tag,AVI tag,Biotin)

2 Images

Overview

Quantity:	200 µg
Target:	CD25 (IL2RA)
Protein Characteristics:	AA 22-213
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD25 protein is labelled with His tag,AVI tag,Biotin.

Product Details

Sequence:	AA 22-213
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:	CD25 (IL2RA)
Alternative Name:	IL-2 R alpha (IL2RA Products)
Background:	Interleukin-2 receptor subunit alpha (IL2RA) is also known as IL-2R subunit alpha, IL-2-RA, IL2-

Target Details

RA, TAC antigen, p55, CD antigen CD25, is a type I transmembrane glycoprotein. IL2RA is expressed on activated T cells and regulatory T cells, and is capable of binding IL2 with low affinity by itself. However, a ligand-induced high affinity heterotrimeric receptor complex is produced when IL2RA is associated non-covalently with the IL2 receptor beta and gamma chain, and subsequently initiates the intracellular signal pathways such as MAPK or JAK/STAT. On dendritic cells (DC), CD25 has been previously regarded as an activation marker, while both murine and human DC can express CD25, they do not express the beta-chain of the IL-2 receptor, which is indispensable for the execution of IL-2 signaling.

Molecular Weight: 25.4 kDa

NCBI Accession: [NP_000408](#)

Pathways: [JAK-STAT Signaling](#), [Growth Factor Binding](#), [Activated T Cell Proliferation](#)

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

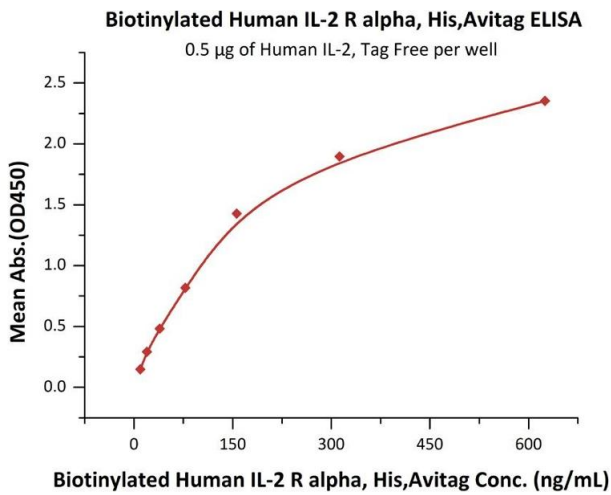
Handling

Format: Lyophilized

Buffer: PBS, pH 7.4

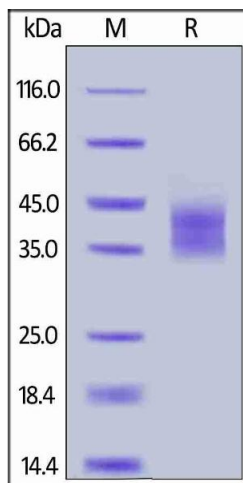
Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C



ELISA

Image 1. Immobilized Human IL-2, Tag Free (ABIN6386425,ABIN6388245) at 5 µg/mL (100 µL/well) can bind Biotinylated Human IL-2 R alpha, His,Avitag (ABIN6731243,ABIN6809898) with a linear range of 10-156 ng/mL (QC tested).



SDS-PAGE

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