Datasheet for ABIN6973119

IL3RA Protein (AA 19-305) (His tag,AVI tag,Biotin)

2 Images

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Overview

Quantity:	200 µg
Target:	IL3RA
Protein Characteristics:	AA 19-305
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL3RA protein is labelled with His tag,AVI tag,Biotin.

Product Details

Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Characteristics:	Biotinylated Human IL-3 R alpha / CD123 Protein, His,Avitag™ (MALS verified)
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	IL3RA
Alternative Name:	IL-3 R alpha (IL3RA Products)
Background:	Interleukin 3 receptor alpha (low affinity) (IL3RA), also known as CD123 (Cluster of

Target Details

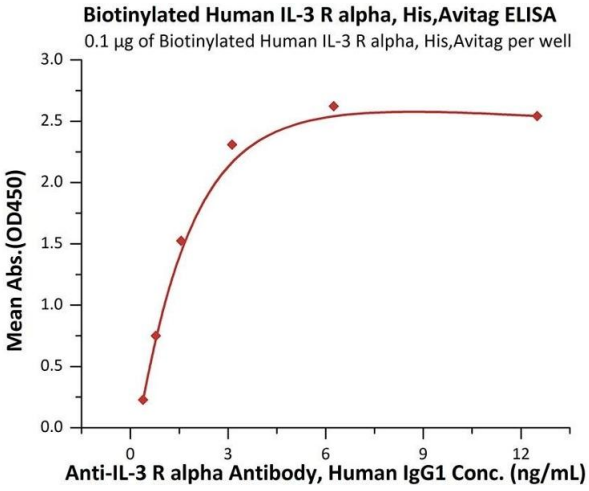
	Differentiation 123) is a 70-kD glycoprotein member of the hematopoietin receptor superfamily. This protein associates with a beta subunit common to the receptors for IL-5 and granulocyte-macrophage colony-stimulating factor (GM-CSF) to form a high-affinity receptor for IL-3. The interleukin-3 receptor α chain (CD123) has been identified as a potential immunotherapeutic target because it is overexpressed in AML compared with normal hematopoietic stem cells.
Molecular Weight:	36.7 kDa
NCBI Accession:	NP_002174
Pathways:	JAK-STAT Signaling

Application Details

Application Notes:	MALS verified
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

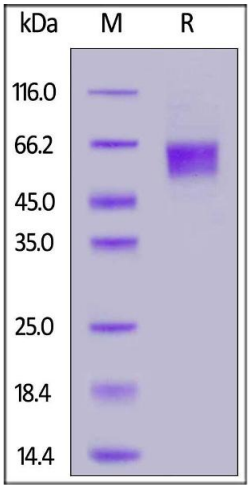
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Storage:	-20 °C



ELISA

Image 1. Immobilized Biotinylated Human IL-3 R alpha, His,Avitag (ABIN6973119) at 1 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate can bind Anti-IL-3 R alpha Antibody, Human IgG1 with a linear range of 0.4-2 ng/mL (QC tested).



SDS-PAGE

Image 2. Biotinylated Human IL-3 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 95 % .