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Datasheet for ABIN6973124

IL-33 Protein (AA 109-270) (His tag,AVI tag,Biotin)

2 Images

Overview

Quantity:	200 µg
Target:	IL-33 (IL33)
Protein Characteristics:	AA 109-270
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL-33 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-33 Protein, His,Avitag™ (MALS verified)
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	IL-33 (IL33)
Alternative Name:	IL-33 (IL33 Products)
Background:	Interleukin 33 (IL33) is known as C9orf26, DKFZp586H0523, DVS27, NF-HEV, NFEHEV, RP11-

Target Details

575C20.2, and is a cytokine belonging to the IL-1 superfamily. IL-33 induces helper T cells, mast cells, eosinophils and basophils to produce type 2 cytokines. IL-33 mediates its biological effects by interacting with the receptors ST2 (aka IL1RL1) and IL-1 Receptor Accessory Protein (IL1RAP), activating intracellular molecules in the NF- κ B and MAP kinase signaling pathways that drive production of type 2 cytokines (e.g. IL-5 and IL-13) from polarized Th2 cells. In vivo, IL-33 induces the expression of IL-4, IL-5, and IL-13 and leads to severe pathological changes in mucosal organs.

Molecular Weight: 21.9 kDa

NCBI Accession: [NP_254274](#)

Pathways: [Production of Molecular Mediator of Immune Response](#)

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.

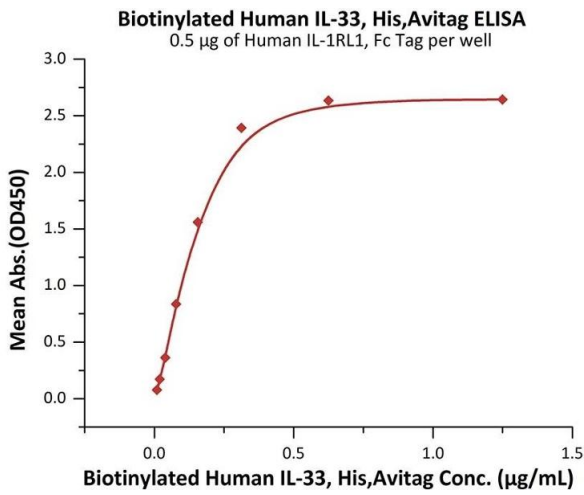
Restrictions: For Research Use only

Handling

Format: Lyophilized

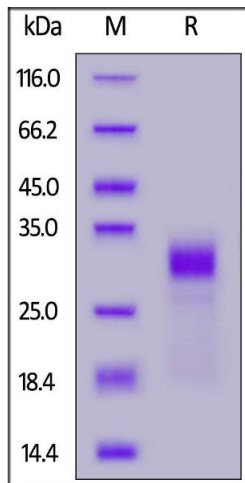
Buffer: PBS, pH 7.4

Storage: -20 °C



ELISA

Image 1. Immobilized Human IL-1RL1, Fc Tag (ABIN2181368,ABIN2181367) at 5 µg/mL (100 µL/well) can bind Biotinylated Human IL-33, His,Avitag (ABIN6973124) with a linear range of 0.01-0.156 µg/mL (QC tested).



SDS-PAGE

Image 2. Biotinylated Human IL-33, His,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 %.