antibodies

Datasheet for ABIN6731261 IL-15 Protein (AA 49-162) (Fc Tag,AVI tag,Biotin)





Overview

Quantity:	200 µg
Target:	IL-15 (IL15)
Protein Characteristics:	AA 49-162
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL-15 protein is labelled with Fc Tag,AVI tag,Biotin.

Product Details

Sequence:	AA 49-162
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per μg by the LAL method.
Target Details	

Target:	IL-15 (IL15)
Alternative Name:	IL-15 (IL15 Products)
Background:	Interleukin 15 is also known as IL15, IL-15, and is a cytokine with structural similarity to IL-2.

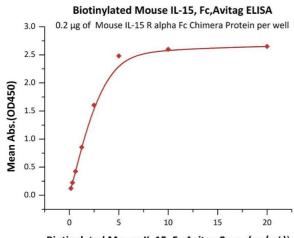
Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN6731261 | 09/10/2023 | Copyright antibodies-online. All rights reserved.

	Like IL-2, IL-15 binds to and signals through the IL-2/IL-15 beta chain (CD122) and the common
	gamma chain (gamma-C, CD132). IL-15 is secreted by mononuclear phagocytes (and some
	other cells) following infection by virus(es). This cytokine induces cell proliferation of natural
	killer cells, cells of the innate immune system whose principal role is to kill virally infected cells.
	Interleukin 15 (IL-15) regulates T and natural killer (NK) cell activation and proliferation. Survival
	signals that maintain memory T cells in the absence of antigen are provided by IL-15. This
	cytokine is also implicated in NK cell development. In rodent lymphocytes, IL-15 prevents
	apoptosis by inducing an apoptosis inhibitor, BCL2L1/BCL-x(L). IL-15 has been shown to
	enhance the anti-tumor immunity of CD8+ T cells in pre-clinical models. A phase I clinical trial
	to evaluate the safety, dosing, and anti-tumor efficacy of IL-15 in patients with metastatic
	melanoma and renal cell carcinoma (kidney cancer) has begun to enroll patients at the National
	Institutes of Health.
Molecular Weight:	41.5 kDa
Pathways:	JAK-STAT Signaling, Glycosaminoglycan Metabolic Process
Application Details	
Comment:	Ready-to-use AvitagTM biotinylated protein:
	The product is exclusively produced using the AvitagTM 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:	Tris with Glycine, Arginine and NaCl, pH 7.5
Handling Advice:	Please avoid repeated freeze-thaw cycles.

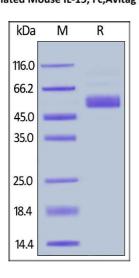
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-20 °C

Images



Biotinylated Mouse IL-15, Fc, Avitag Conc. (µg/mL))



ELISA

Image 1. Immobilized Mouse IL-15 R alpha Fc Chimera Protein at 2 µg/mL (100 µL/well) can bind Biotinylated Mouse IL-15, Fc,Avitag (ABIN6731261,ABIN6809926) with a linear range of 0.156-5 µg/mL (QC tested).

SDS-PAGE

Image 2. Biotinylated Mouse IL-15, Fc,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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