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# FCER2 Protein (AA 48-321) (His tag, AVI tag, Biotin)

2 Images



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# Overview

Quantity:	200 μg
Target:	FCER2
Protein Characteristics:	AA 48-321
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This FCER2 protein is labelled with His tag,AVI tag,Biotin.

# **Product Details**

Brand:	PrecisionAvi
Sequence:	AA 48-321
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Characteristics:	This protein carries a polyhistidine tag at the N-terminus, followed by an Avi tag (Avitag™). The protein has a calculated MW of 34.2 kDa. The protein migrates as 40-46 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by reduced SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per μg by the LAL method.

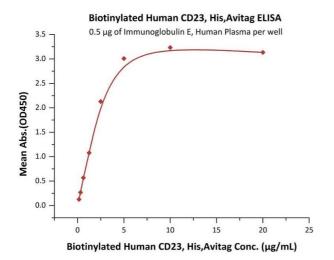
# Target Details

Target:	FCER2
Alternative Name:	CD23 (FCER2 Products)
Background:	Cluster of differentiation 23 (CD23) is also known as Low affinity immunoglobulin epsilon Fc
	receptor (FCER2), C-type lectin domain family 4 member J (CLEC4J), Fc-epsilon-RII (FceRII),
	Immunoglobulin E-binding factor (IGEBF), is the "low-affinity" receptor for IgE, an antibody
	isotype involved in allergy and resistance to parasites, and is important in regulation of IgE
	levels. Unlike many of the antibody receptors, CD23 is a C-type lectin. It is found on mature B
	cells, activated macrophages, eosinophils, follicular dendritic cells, and platelets. There are two
	forms of CD23: CD23a and CD23b. CD23a is present on follicular B cells, whereas CD23b
	requires IL-4 to be expressed on T-cells, monocytes, Langerhans cells, eosinophils, and
	macrophages. CD23 is known to have role of transportation in antibody feedback regulation.
	Antigen that enters the blood stream is captured by antigen specific IgE antibodies. The IgE
	immune complexes that are formed bind to CD23 Molecules on B cells, and are transported to
	the B cell follicles of the spleen. The antigen is then transferred from CD23+ B cells to CD11c+
	antigen presenting cells. The CD11c+ cells in turn present the antigen to CD4+ T cells, which
	can lead to an enhanced antibody response. In flow cytometry, CD23 is helpful in the
	differentiation of chronic lymphocytic leukemia (CD23-positive) from mantle cell leukemia
	(CD23-negative).
Molecular Weight:	34.2 kDa
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector 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. Col
	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

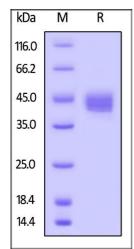
Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C

# **Images**



## **ELISA**

**Image 1.** Immobilized Immunoglobulin E, Human Plasma at 5  $\mu$ g/mL (100  $\mu$ L/well) can bind Biotinylated Human CD23, His,Avitag (ABIN5674588,ABIN6253699) with a linear range of 0.156-2.5  $\mu$ g/mL (QC tested).



## **SDS-PAGE**

**Image 2.** Biotinylated Human CD23, His,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than  $95\,\%$ .