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Datasheet for ABIN5954991 FCGR1A Protein (AA 16-288) (His tag,AVI tag,Biotin)



Overview

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Images

Quantity:	200 µg
Target:	FCGR1A
Protein Characteristics:	AA 16-288
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This FCGR1A protein is labelled with His tag,AVI tag,Biotin.

Product Details

Sequence:	AA 16-288
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 reduced SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per μ g by the LAL method.

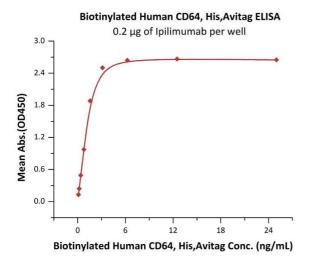
Target Details

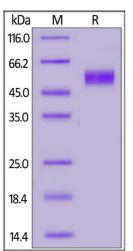
Target:	FCGR1A
Alternative Name:	Fc gamma RI / CD64 (FCGR1A Products)
Background:	Receptors that recognize the Fc portion of IgG are divided into three groups designated Fc

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	gamma RI, RII, and RIII, also known respectively as CD64, CD32, and CD16. Fc gamma RI binds
	IgG with high affinity and functions during early immune responses. Fc gamma RII and RIII are
	low affinity receptors that recognize IgG as aggregates surrounding multivalent antigens during
	late immune responses. High affinity immunoglobulin gamma Fc receptor I is also known as
	FCGR1A, FCG1, FCGR1, CD64 and IGFR1, is a type of integral membrane glycoprotein that
	binds monomeric IgG-type antibodies with high affinity, which belongs to the immunoglobulin
	superfamily or FCGR1 family. FCGR1A / CD64 contains 3 Ig-like C2-type (immunoglobulin-like)
	domains. CD64 is constitutively found on only macrophages and monocytes, but treatment of
	polymorphonuclear leukocytes with cytokines like IFNγ and G-CSF can induce CD64 expression on these cells.
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. 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

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ELISA

Image 1. Immobilized Ipilimumab at $2 \mu g/mL$ (100 $\mu L/well$) can bind Biotinylated Human CD64, His,Avitag (ABIN5954991,ABIN6253649) with a linear range of 0.1-3 ng/mL (QC tested).

SDS-PAGE

Image 2. Biotinylated Human CD64, His,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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