



Datasheet for ABIN5674593

CD40 Protein (CD40) (AA 21-193) (Fc Tag,AVI tag,Biotin)



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3 Images

Overview

Quantity:	200 µg
Target:	CD40
Protein Characteristics:	AA 21-193
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD40 protein is labelled with Fc Tag,AVI tag,Biotin.

Product Details

Brand:	PrecisionAvi
Sequence:	AA 21-193
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 human IgG1 Fc tag at the C-terminus, followed by a Avi tag (Avitag™). The protein has a calculated MW of 48.1 kDa. The protein migrates as 60-66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	CD40
Alternative Name:	CD40 (CD40 Products)
Background:	CD40 is also known as TNFRSF5, Bp50, CDW40, MGC9013, TNFRSF5 and p50, is a member of the TNF receptor superfamily which are single transmembrane-spanning glycoproteins, and plays an essential role in mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. CD40 is a costimulatory protein found on antigen presenting cells and is required for their activation. The binding of CD154 (CD40L) on TH cells to CD40 activates antigen presenting cells and induces a variety of downstream effects. CD40 contains 4 cysteine-rich repeats in the extracellular domain, and is expressed in B cells, dendritic cells, macrophages, endothelial cells, and several tumor cell lines.
Molecular Weight:	48.1 kDa
Pathways:	NF-kappaB Signaling , Cellular Response to Molecule of Bacterial Origin , M Phase , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , Cancer Immune Checkpoints

Application Details

Comment:	<p>Ready-to-use AvitagTM biotinylated protein:</p> <p>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.</p> <p>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.</p>
Restrictions:	For Research Use only

Handling

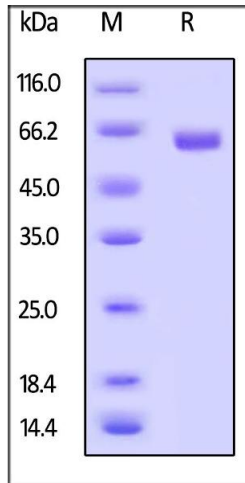
Format:	Lyophilized
Buffer:	Tris with Glycine, Arginine and NaCl, pH 7.5

Handling

Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C

Images

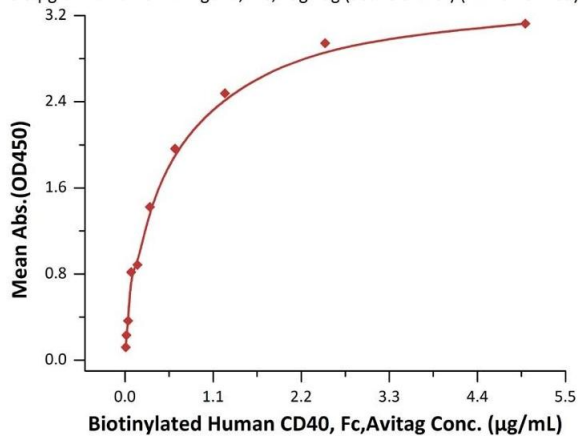


SDS-PAGE

Image 1. Biotinylated Human CD40, Fc,Avitag™ (MALS verified) on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .

Biotinylated Human CD40, Fc,Avitag ELISA

0.5 µg of Human CD40 Ligand, His,Flag Tag (active trimer) (MALS verified) per well

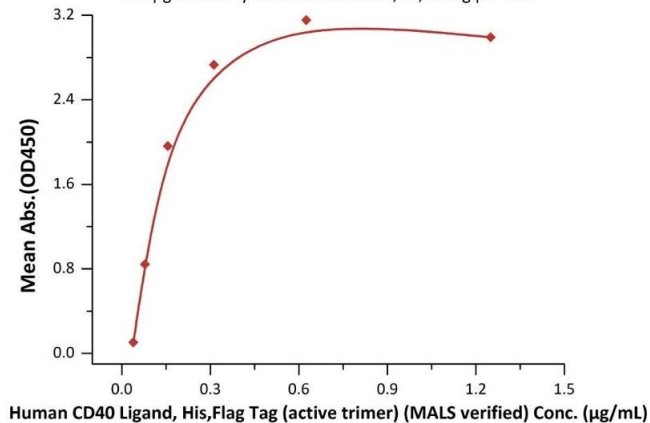


ELISA

Image 2. Immobilized Human CD40 Ligand, His,Flag Tag (active trimer) (MALS verified) (ABIN6950957,ABIN6952262) at 5 µg/mL (100 µL/well) can bind Biotinylated Human CD40, Fc,Avitag (ABIN5674593,ABIN6253701) with a linear range of 0.01-0.625 µg/mL (QC tested).

Biotinylated Human CD40, Fc,Avitag ELISA

0.5 µg of Biotinylated Human CD40, Fc,Avitag per well



ELISA

Image 3. Immobilized Biotinylated Human CD40, Fc,Avitag (ABIN5674593,ABIN6253701) at 5 µg/mL (100 µL/well) on Streptavidin precoated (0.5 µg/well) plate, can bind Human CD40 Ligand, His,Flag Tag (active trimer) (MALS verified) (ABIN6950957,ABIN6952262) with a linear range of 0.039-1.25 µg/mL (Routinely tested).