

Datasheet for ABIN6972981

CD28 Protein (CD28) (AA 19-152) (His tag,AVI tag,Biotin)[Go to Product page](#)**3** Images

Overview

Quantity:	200 µg
Target:	CD28
Protein Characteristics:	AA 19-152
Origin:	Human, Cynomolgus, Rhesus Monkey
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD28 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 / Cynomolgus / Rhesus macaque CD28 Protein, His,Avitag™
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	CD28
Alternative Name:	CD28 (CD28 Products)
Background:	CD28 homolog (CD28H), also called transmembrane and immunoglobulin domain containing 2

Target Details

(TMIGD2) and IGPR-1, is encoded by the TMIGD2 gene. CD28H is constitutively expressed on naive T and NK cells. After interaction of CD28 homolog with B7 homologue, the peripheral effector and memory T cells can be activated and proliferated by Akt-dependent signalling cascade. Plays a role in cell-cell interaction, cell migration, and angiogenesis. Through interaction with HHLA2, costimulates T-cells in the context of TCR-mediated activation. Enhances T-cell proliferation and cytokine production via an AKT-dependent signaling cascade.

Molecular Weight: 18.7 kDa

NCBI Accession: [NP_006130](#)

Pathways: [TCR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#)

Application Details

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.

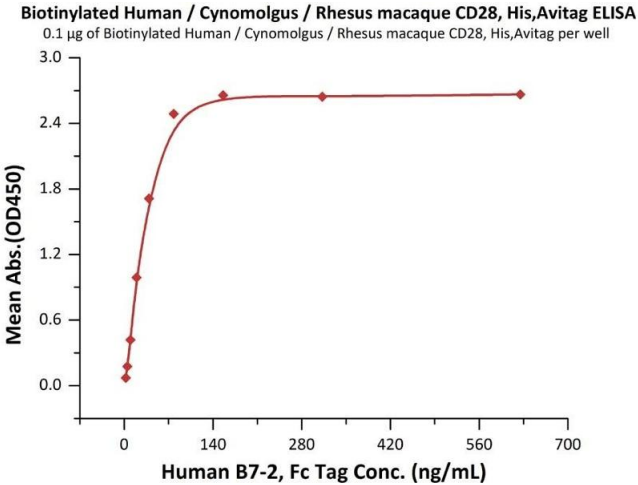
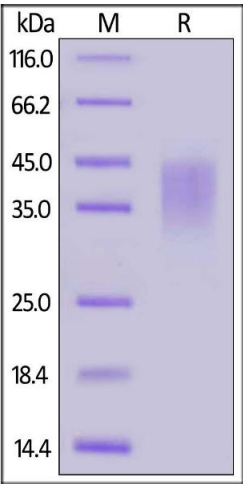
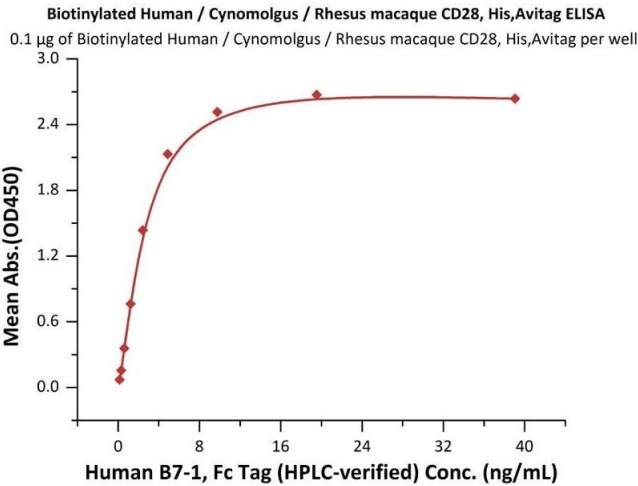
Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: PBS, pH 7.4

Storage: -20 °C



ELISA

Image 1. Immobilized Biotinylated Human / Cynomolgus / Rhesus macaque CD28, His,Avitag (ABIN6972981) at 1 µg/mL (100 µL/well) on Streptavidin precoated (0.5 µg/well) plate, can bind Human B7-1, Fc Tag (Hied) (ABIN2180846,ABIN2180845) with a linear range of 0.2-5 ng/mL (QC tested).

SDS-PAGE

Image 2. Biotinylated Human / Cynomolgus / Rhesus macaque CD28, His,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .

ELISA

Image 3. Immobilized Biotinylated Human / Cynomolgus / Rhesus macaque CD28, His,Avitag (ABIN6972981) at 1 µg/mL (100 µL/well) on Streptavidin precoated (0.5 µg/well) plate, can bind Human B7-2, Fc Tag (ABIN2180621,ABIN2180620) with a linear range of 2-78 ng/mL (Routinely tested).