Datasheet for ABIN6973016

CD7 Protein (CD7) (AA 26-180) (His tag,AVI tag,Biotin)

3 Images

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Overview

Quantity:	200 µg
Target:	CD7
Protein Characteristics:	AA 26-180
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD7 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 CD7 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:	CD7
Alternative Name:	CD7 (CD7 Products)
Background:	T-cell antigen CD7 (CD7) is also known as GP40, LEU-9, TP41 and Tp40. CD7 is a protein that in

Target Details

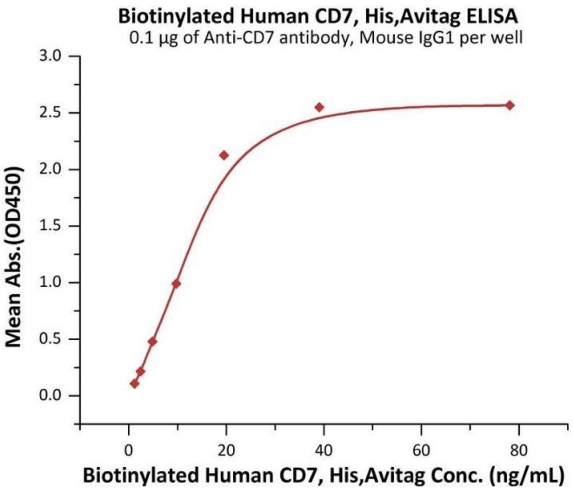
	humans is encoded by the CD7 gene, this gene encodes a transmembrane protein which is a member of the immunoglobulin superfamily. CD7 has been shown to interact with PIK3R1. This protein is found on thymocytes and mature T cells. It plays an essential role in T-cell interactions and also in T-cell/B-cell interaction during early lymphoid development.
Molecular Weight:	20.0 kDa
NCBI Accession:	NP_006128
Pathways:	Cell-Cell Junction Organization

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

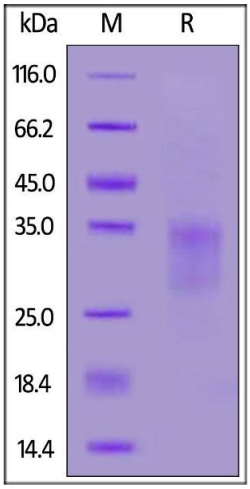
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Storage:	-20 °C



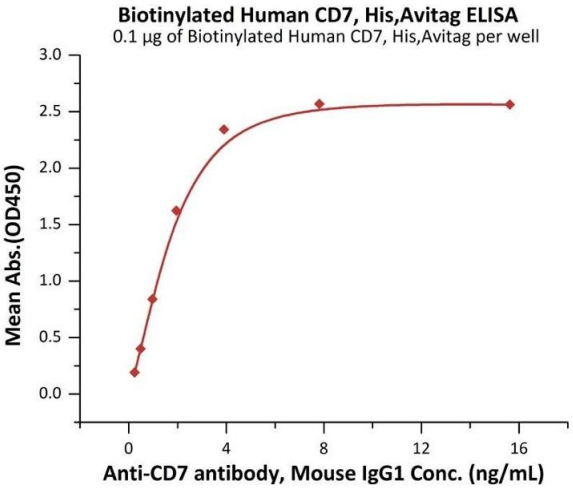
ELISA

Image 1. Immobilized Anti-CD7 antibody, Mouse IgG1 at 1 μg/mL (100 μL/well) can bind Biotinylated Human CD7, His,Avitag (ABIN6973016) with a linear range of 1-20 ng/mL (Routinely tested).



SDS-PAGE

Image 2. Biotinylated Human CD7, 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 CD7, His,Avitag (ABIN6973016) at 1 μg/mL (100 μL/well) on streptavidin precoated (0.5 μg/well) plate can bind Anti-CD7 antibody, Mouse IgG1 with a linear range of 0.2-2 ng/mL (QC tested).