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Datasheet for ABIN6731313

CEACAM6 Protein (AA 35-320) (His tag,AVI tag,Biotin)

2 Images

Overview

Quantity:	200 µg
Target:	CEACAM6
Protein Characteristics:	AA 35-320
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CEACAM6 protein is labelled with His tag,AVI tag,Biotin.

Product Details

Sequence:	AA 35-320
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	CEACAM6
Alternative Name:	CEACAM-6 (CEACAM6 Products)
Background:	Carcinoembryonic antigen-related cell adhesion molecule 6 (non-specific cross reacting

Target Details

antigen) (CEACAM6) is also known as CD66c (Cluster of Differentiation 66c), CEAL, NCA, and is one of seven human CEACAM family members within the immunoglobulin superfamily. In humans, CEACAMs include type I transmembrane proteins (CEACAM1, CEACAM3, and CEACAM4) and GPI-linked molecules (CEACAM5 through CEACAM8). There is no human CEACAM2. CEACAM 6 contains one N-terminal V-type Ig-like domain (N domain), followed by two C2-type Ig-like domains. It shows considerable glycosylation, including (sialyl) LewisX, which mediates binding to E-selectin, galectins and some bacterial fimbriae. CEACAM-6 is expressed by granulocytes and their progenitors. It is also expressed by epithelia of various organs and is upregulated in pancreatic and colon adenocarcinomas, as well as hyperplastic polyps. Resistance to adhesion-related apoptosis in tumor cells is conferred in the condition of CEACAM6 overexpression.

Molecular Weight: 34.9 kDa

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

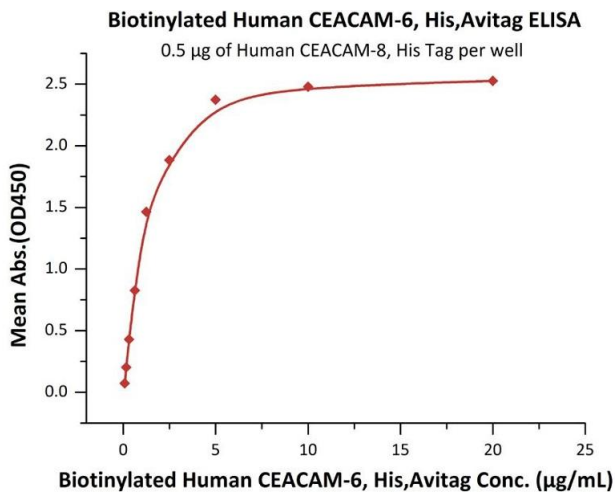
Handling

Format: Lyophilized

Buffer: PBS, pH 7.4

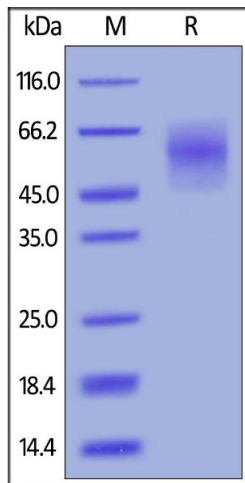
Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C



ELISA

Image 1. Immobilized Human CEACAM-8, His Tag (ABIN2180872,ABIN2180871) at 5 µg/mL (100 µL/well) can bind Biotinylated Human CEACAM-6, His,Avitag (ABIN6731313,ABIN6809939) with a linear range of 0.078-1.25 µg/mL (QC tested).



SDS-PAGE

Image 2. Biotinylated Human CEACAM-6, His,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .