Datasheet for ABIN5954969

CEACAM8 Protein (AA 35-319) (His tag,AVI tag,Biotin)

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Overview

Quantity:	200 µg
Target:	CEACAM8
Protein Characteristics:	AA 35-319
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CEACAM8 protein is labelled with His tag,AVI tag,Biotin.

Product Details

Sequence:	AA 35-319
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 SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	CEACAM8
Alternative Name:	CEACAM-8 (CEACAM8 Products)
Background:	Carcinoembryonic antigen-related cell adhesion molecule 8 (CEACAM8) is also known as CD66b (Cluster of Differentiation 66b), CD66b, CD67, CGM6, NCA-95, and is one of seven human CEACAM family members within the immunoglobulin superfamily. CEACAM family

Target Details

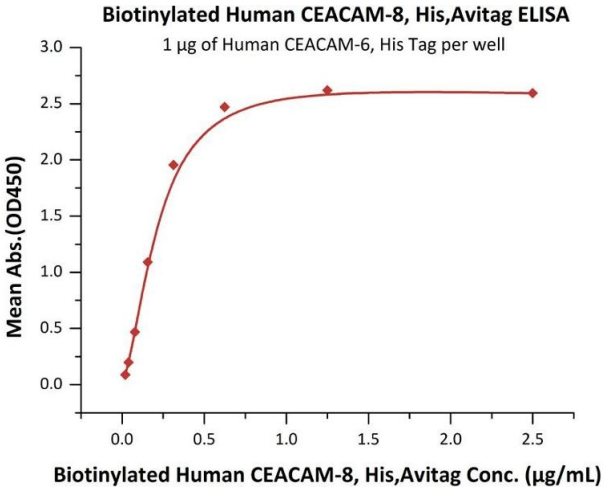
	members are a set of widely expressed proteins involved in several biological functions, including cell adhesion, migration, signal transduction, and the regulation of gene expression. Abnormal overexpression and downregulation of some CEACAMs have been described in tumor cells. In humans, CEACAMs include type I transmembrane proteins (CEACAM1, CEACAM3, and CEACAM4) and GPI-linked molecules (CEACAM5 through CEACAM8). There is no human CEACAM2. CEACAM8 is a single chain, two Ig-like C2-type (immunoglobulin-like) domains and one Ig-like V-type (immunoglobulin-like) domain. It is an activation marker for human granulocytes.
Molecular Weight:	35.1 kDa
NCBI Accession:	NP_001807

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

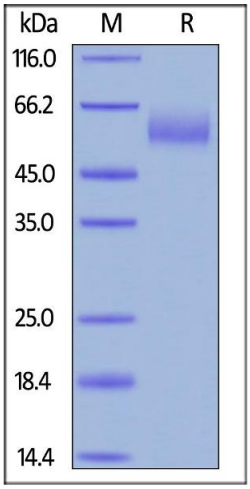
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C



ELISA

Image 1. Immobilized Human CEACAM-6, His Tag (ABIN2180870,ABIN2180869) at 10 µg/mL (100 µL/well) can bind Biotinylated Human CEACAM-8, His,Avitag (ABIN5954969,ABIN6253589) with a linear range of 0.02-0.313 µg/mL (QC tested).



SDS-PAGE

Image 2. Biotinylated Human CEACAM-8, His,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .

