

Datasheet for ABIN6973023

CD8 alpha Protein (AA 22-182) (His tag,AVI tag,Biotin)[Go to Product page](#)**3** Images

Overview

Quantity:	200 µg
Target:	CD8 alpha (CD8A)
Protein Characteristics:	AA 22-182
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD8 alpha 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 CD8 alpha / CD8A 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:	CD8 alpha (CD8A)
Alternative Name:	CD8 alpha (CD8A Products)
Background:	Integral membrane glycoprotein that plays an essential role in the immune response and serves

Target Details

multiple functions in responses against both external and internal offenses. Interacts simultaneously with the T-cell receptor (TCR) and the MHC class I proteins presented by antigen presenting cells (APCs). In turn, recruits the Src kinase LCK to the vicinity of the TCR-CD3 complex. In NK-cells, the presence of CD8A homodimers at the cell surface provides a survival mechanism allowing conjugation and lysis of multiple target cells. CD8A homodimer molecules also promote the survival and differentiation of activated lymphocytes into memory CD8 T-cells.

Molecular Weight: 21.2 kDa

NCBI Accession: [NP_001759](#)

Pathways: [TCR Signaling](#)

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.

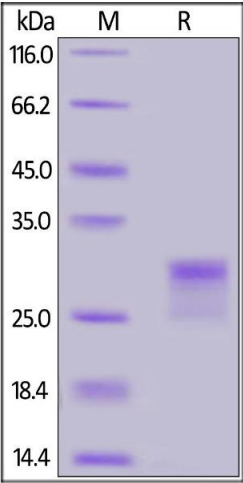
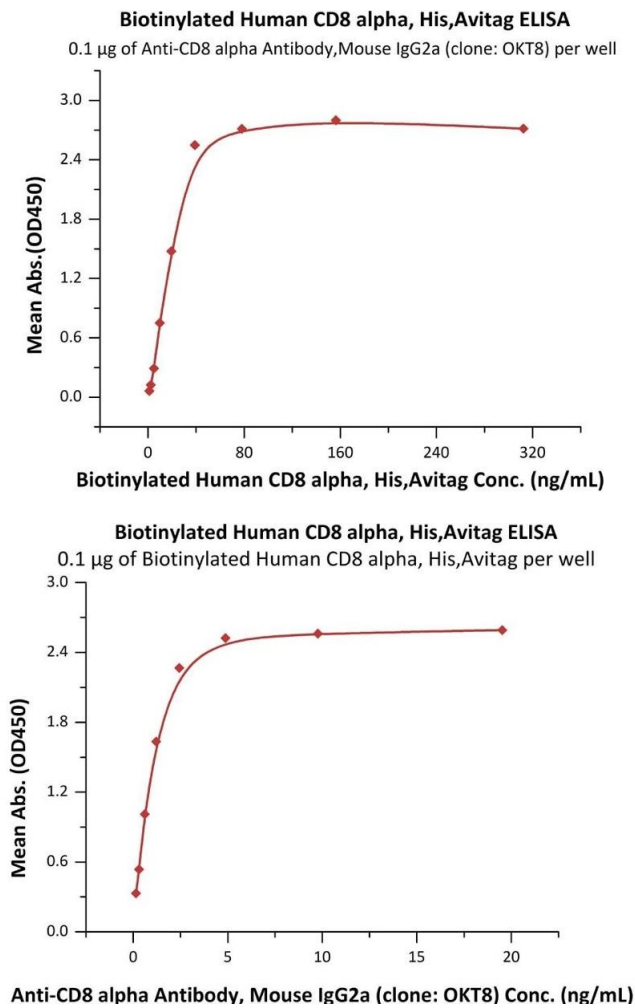
Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: PBS, pH 7.4

Storage: -20 °C



ELISA

Image 1. Immobilized Anti-CD8 alpha Antibody, Mouse IgG2a (clone: OKT8) at 1 µg/mL (100 µL/well) can bind Biotinylated Human CD8 alpha, His,Avitag (ABIN6973023) with a linear range of 1-39 ng/mL (Routinely tested).

ELISA

Image 2. Immobilized Biotinylated Human CD8 alpha, His,Avitag (ABIN6973023) at 1 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate. can bind Anti-CD8 alpha Antibody, Mouse IgG2a (clone: OKT8) with a linear range of 0.2-2 ng/mL (QC tested).

SDS-PAGE

Image 3. Biotinylated Human CD8 alpha, His,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .