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Datasheet for ABIN5955002

HHLA2 Protein (AA 23-344) (Fc Tag,AVI tag,Biotin)

2 Images

Overview

Quantity:	200 µg
Target:	HHLA2
Protein Characteristics:	AA 23-344
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This HHLA2 protein is labelled with Fc Tag,AVI tag,Biotin.

Product Details

Sequence:	AA 23-344
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:	HHLA2
Alternative Name:	B7-H7 (HHLA2 Products)
Background:	B7-H7 (HHLA2) is a newly identified B7 family member that regulates human T-cell functions.

Target Details

B7-H7 was previously known as human endogenous retrovirus-H long terminal repeat associating 2 (HHLA2) with unidentified function. Recently, B7-H7 has been identified as a specific ligand for human CD28H. The B7-H7-CD28H pathway strongly promoted CD4+ T-cell proliferation and cytokine production via an AKT-dependent signaling cascade in the presence of TCR signaling, suggesting B7-H7 comprises a new co-stimulatory pathway. The first IgV domain of B7-H7, which presumably binds to a putative receptor, shows the highest homology to other B7 family members.

Molecular Weight: 65.9 kDa

NCBI Accession: [NP_009003](#)

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

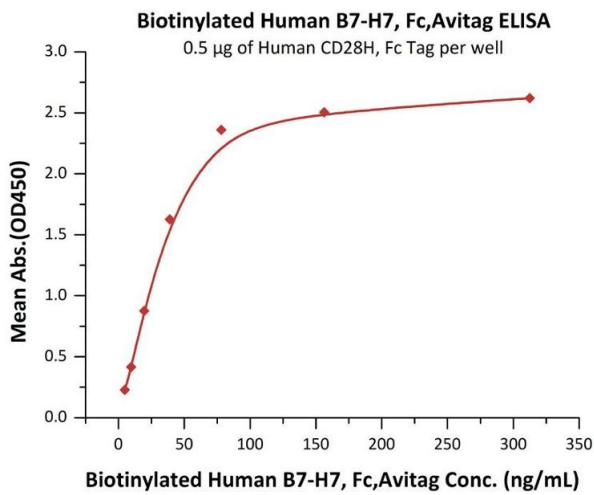
Handling

Format: Lyophilized

Buffer: Tris with Glycine, Arginine and NaCl, pH 7.5

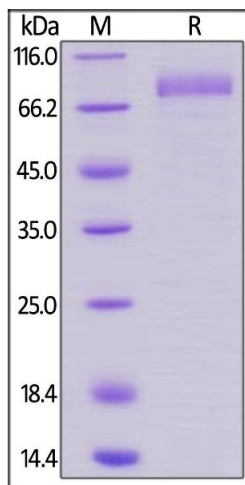
Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C



ELISA

Image 1. Immobilized Human CD28H, Fc Tag (ABIN5526603,ABIN5526604) at 5 µg/mL (100 µL/well) can bind Biotinylated Human B7-H7, Fc,Avitag (ABIN5955002,ABIN6253641) with a linear range of 5-78 ng/mL (QC tested).



SDS-PAGE

Image 2. Biotinylated Human B7-H7, Fc,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 %.