Datasheet for ABIN5526675

nectin-3 Protein (AA 58-400) (Fc Tag,AVI tag,Biotin)

3 Images

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Overview

Quantity:	200 µg
Target:	nectin-3 (NECTIN3)
Protein Characteristics:	AA 58-400
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This nectin-3 protein is labelled with Fc Tag,AVI tag,Biotin.

Product Details

Brand:	PrecisionAvi
Sequence:	AA 58-400
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Characteristics:	This protein carries a human IgG1 Fc tag at the C-terminus, followed by a Avi tag (Avitag™). The protein has a calculated MW of 66.1 kDa. The protein migrates as 90-95 kDa and 100-115 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	nectin-3 (NECTIN3)
Alternative Name:	Nectin-3 (NECTIN3 Products)
Background:	Poliovirus receptor-related 3 (PVRL3), also known as nectin-3 and CD113, is a human protein of the immunoglobulin superfamily which forms part of adherens junctions. Nectins are immunoglobulin-like adhesion molecules that interact with afadin (AF6, MIM 159559). Afadin is an actin filament-binding protein that connects nectins to the actin cytoskeleton. The nectin-afadin system organizes adherens junctions cooperatively with the cadherin system in epithelial cells. PVRL3 plays a role in cell-cell adhesion through heterophilic trans-interactions with nectin-like proteins or nectins, such as trans-interaction with PVRL2/nectin-2 at Sertoli-spermatid junctions. Furthermore, PVRL3 induces endocytosis-mediated down-regulation of PVR from the cell surface, resulting in reduction of cell movement and proliferation.
Molecular Weight:	66.1 kDa
NCBI Accession:	NP_056295
Pathways:	Cell-Cell Junction Organization

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

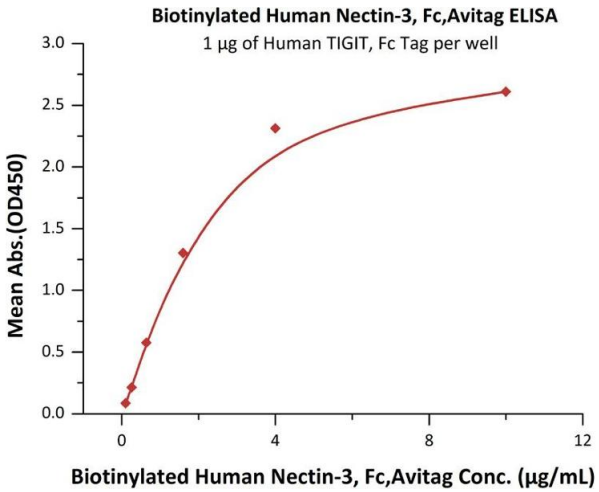
Handling

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

Handling

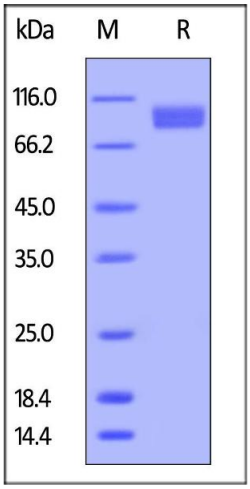
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C

Images



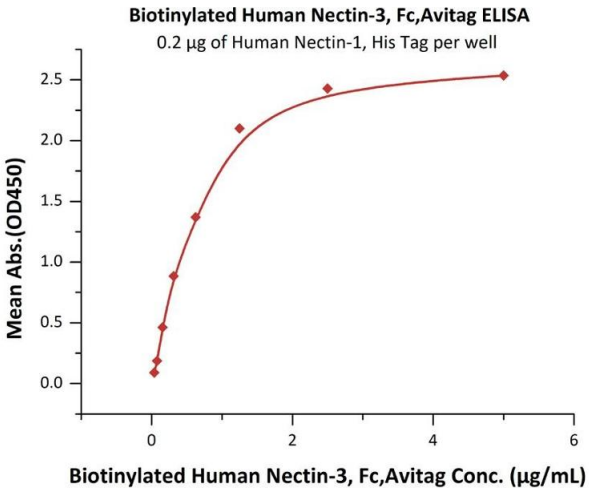
ELISA

Image 1. Immobilized Human TIGIT, Fc Tag (ABIN2181815,ABIN6951013) at 10 µg/mL (100 µL/well) can bind Biotinylated Human Nectin-3, Fc,Avitag (ABIN5526674,ABIN5526675) with a linear range of 0.102-4 µg/mL (Routinely tested).



SDS-PAGE

Image 2. Biotinylated Human Nectin-3, Fc,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .



ELISA

Image 3. Immobilized Human Nectin-1, His Tag (ABIN2181680,ABIN2181679) at 2 µg/mL (100 µL/well) can bind Biotinylated Human Nectin-3, Fc,Avitag (ABIN5526674,ABIN5526675) with a linear range of 0.078-0.625 µg/mL (QC tested).