

**Synonym**

SDC1,Syndecan-1,CD138,SYND1,SDC

**Source**

Biotinylated Human Syndecan-1, His,Avitag(SY1-H82E2) is expressed from human 293 cells (HEK293). It contains AA Gln 23 - Gly 254 (Accession # [P18827-1](#) ).

Predicted N-terminus: Gln 23

**Molecular Characterization**

Syndecan-1(Gln 23 - Gly 254)  
P18827-1    Poly-his    Avi

This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 27.5 kDa. The protein migrates as 44-65 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Labeling**

*Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.*

**Protein Ratio**

Passed as determined by the HABA assay / binding ELISA.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

&gt;90% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

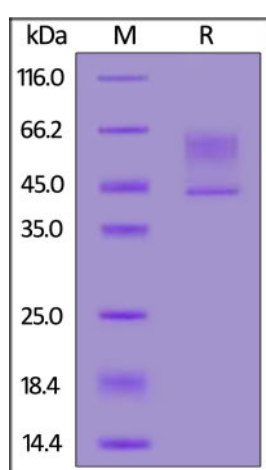
**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

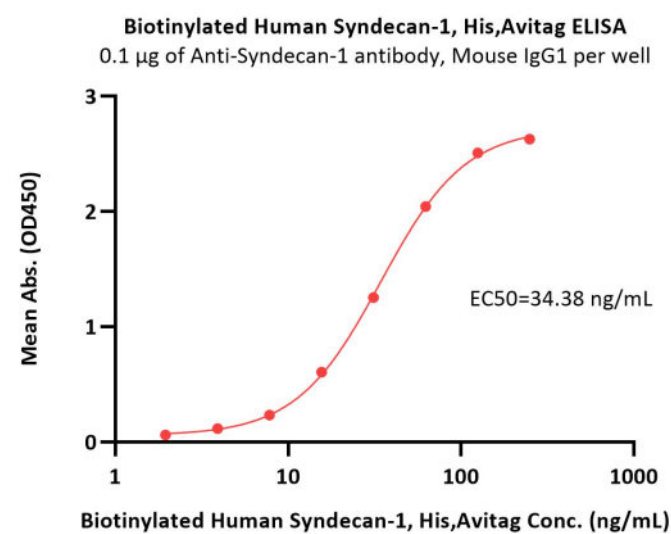
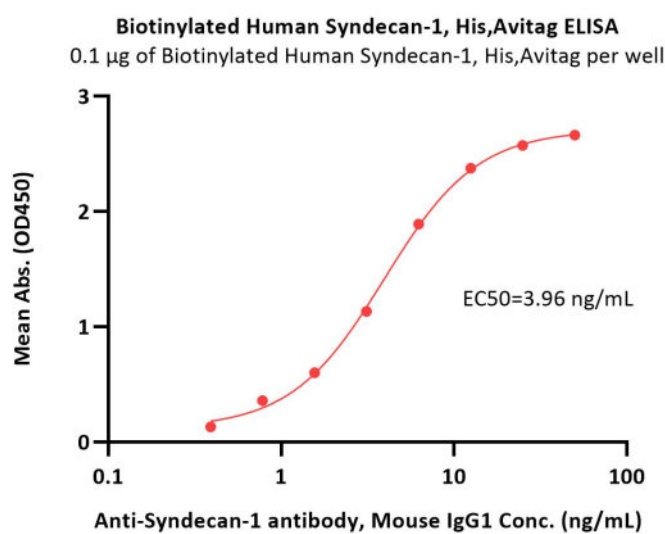
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

Biotinylated Human Syndecan-1, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

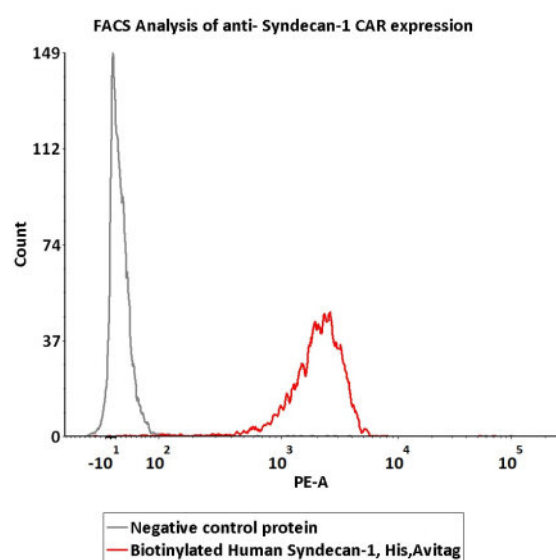
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Immobilized Biotinylated Human Syndecan-1, His,Avitag (Cat. No. SY1-H82E2) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) (0.5 µg/well) plate, can bind Anti-Syndecan-1 antibody, Mouse IgG1 with a linear range of 0.4-6 ng/mL (QC tested).

Immobilized Anti-Syndecan-1 antibody, Mouse IgG1 at 1 µg/mL (100 µL/well) can bind Biotinylated Human Syndecan-1, His,Avitag (Cat. No. SY1-H82E2) with a linear range of 2-63 ng/mL (Routinely tested).

### Bioactivity-FACS



2e5 of anti-Syndecan-1 CAR-293 cells were stained with 100 µL of 1 µg/mL of Biotinylated Human Syndecan-1, His,Avitag (Cat. No. SY1-H82E2) and negative control protein respectively, washed and then followed by PE-SA and analyzed with FACS (Routinely tested).

### Background

Syndecan-1 (SYND1 or SDC1) is also known as CD antigen CD138, is a transmembrane (type I) heparan sulfate proteoglycan and is a member of the syndecan proteoglycan family. The syndecans mediate cell binding, cell signaling, and cytoskeletal organization and syndecan receptors are required for internalization of the HIV-1 tat protein. The syndecan-1 / SDC1 protein functions as an integral membrane protein and participates in cell proliferation, cell migration and cell-matrix interactions via its receptor for extracellular matrix proteins. It is a useful marker for plasma cells, but only if the cells tested are already known to be derived from blood.

### Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.

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