

FITC-Labeled Human Syndecan-1 Protein, His Tag

Catalog # SD1-HF228



Synonym

SDC1,Syndecan-1,CD138,SYND1,SDC

Source

FITC-Labeled Human Syndecan-1, His Tag(SD1-HF228) 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

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 25.8 kDa. The protein migrates as 42-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Conjugate

FITC

Excitation source: 488 nm spectral line, argon-ion laser

Excitation Wavelength: 488 nm

Emission Wavelength: 535 nm

Labeling

*The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with FITC using standard chemical labeling method. The residual FITC is removed by molecular sieve treatment during purification process.*

Protein Ratio

The FITC to protein molar ratio is 1.5-3.5.

Purity

>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

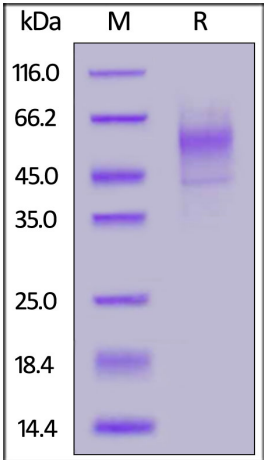
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please protect from light and 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

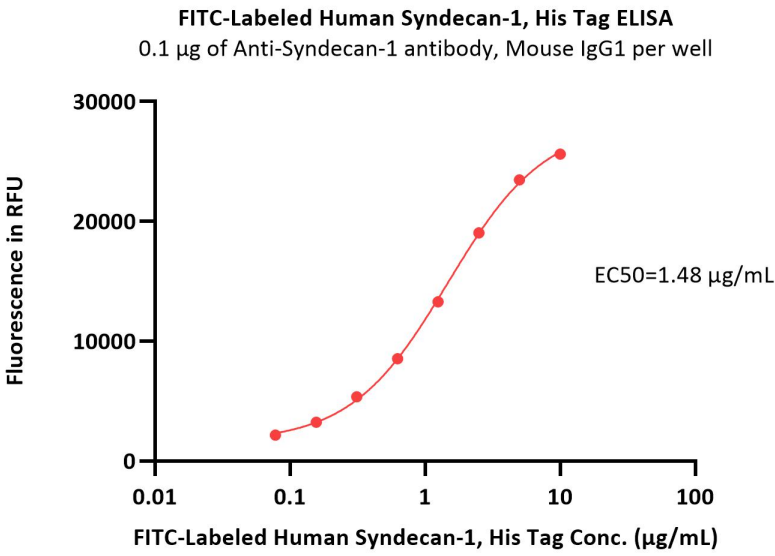


FITC-Labeled Human Syndecan-1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein



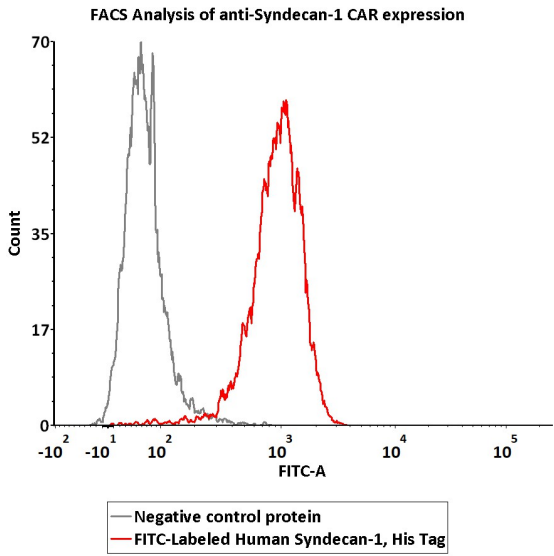
is greater than 90%.

Bioactivity-ELISA



Immobilized Anti-Syndecan-1 antibody, Mouse IgG1 at 1 µg/mL (100 µL/well) can bind FITC-Labeled Human Syndecan-1, His Tag (Cat. No. SD1-HF228) with a linear range of 0.078-2.5 µg/mL (QC tested).

Bioactivity-FACS



2e5 of anti-Syndecan-1 CAR-293 cells were stained with 100 µL of 3 µg/mL of FITC-Labeled Human Syndecan-1, His Tag (Cat. No. SD1-HF228) and negative control protein respectively, FITC signals was used to evaluate the binding activity (QC 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.

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