

Synonym

SDC1,Syndecan-1,CD138,SYND1,SDC

Source

APC-Labeled Human Syndecan-1 Protein, His Tag (SY1-HA2H9) is produced via conjugation of APC to Human Syndecan-1 Protein, His Tag with a new generation site-specific technology under Star Staining labeling platform.

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

Predicted N-terminus: Gln 23

Molecular Characterization

This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 27.5 kDa.

Conjugate

APC

Excitation Wavelength: 640 nm

Emission Wavelength: 661 nm

Application

Please note that this product is NOT compatible to streptavidin detection system.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 0.5% BSA, 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

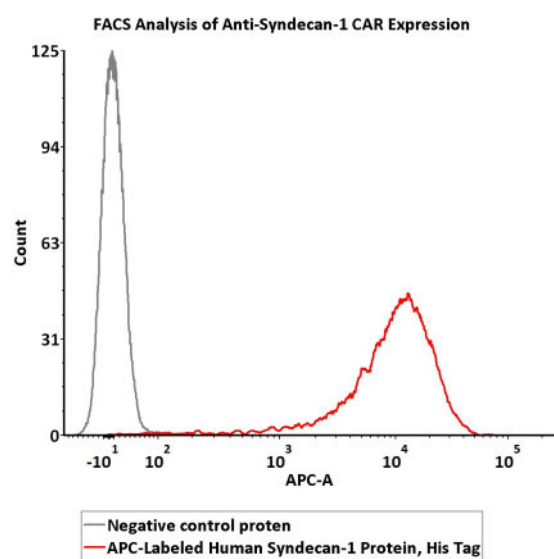
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

Bioactivity-FACS



5e5 of anti-Syndecan-1 CAR-293 cells were stained with 100 µL of 1:25 dilution (4 µL stock solution in 100 µL FACS buffer) of APC-Labeled Human Syndecan-1 Protein, His Tag (Cat. No. SY1-HA2H9) and negative control protein respectively. APC signal 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.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.