



## Synonym

Streptavidin,SA

## Source

Streptavidin Protein-APC(STN-NA113) is expressed from E. coli cells.

Predicted N-terminus: Met

## Molecular Characterization

This protein carries no "tag".

The protein has a calculated MW of 13.8 kDa.

## Conjugate

APC

Excitation Wavelength: 640 nm

Emission Wavelength: 661 nm

## Endotoxin

Less than 1.0 EU per  $\mu\text{g}$  by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22  $\mu\text{m}$  filtered solution in PBS, 0.03% ProClin300, 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

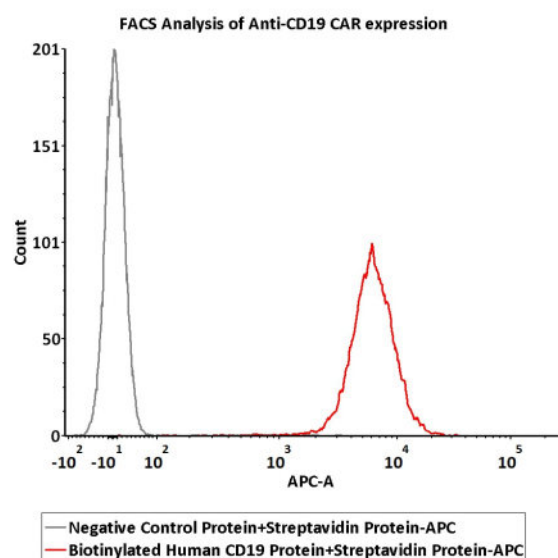
For long term storage, the product should be stored at lyophilized state at  $-20^{\circ}\text{C}$  or lower.

*Please protect from light and avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$  for 24 months in lyophilized state;
- $-20^{\circ}\text{C}$  for 6 months after reconstitution;
- $2-8^{\circ}\text{C}$  for 6 months under sterile conditions after reconstitution.

## Bioactivity-FACS



$5 \times 10^5$  of Anti-CD19 CAR-293 cells were stained with  $100 \mu\text{L}$  of  $20 \mu\text{g}/\text{mL}$  Biotinylated Human CD19 (20-291) Protein, Fc,Avitag, premium grade (Cat. No. CD9-H82F6) and negative control protein respectively, washed and then followed with  $2.5 \mu\text{g}/\text{mL}$  of Streptavidin Protein-APC (Cat. No. STN-NA113) and analyzed with FACS. APC signal was used to evaluate the binding activity (QC tested).

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## Background

Streptavidin is a 66KDa tetrameric protein purified from the bacterium *Streptomyces avidinii*, and exhibits high binding affinity to biotin. Each unit can bind one biotin. Horseradish peroxidase is metalloenzyme, a 44KDa glycoprotein. When incubate with substrates, it produces a coloured, fluorimetric, or luminescent derivatives, which can be detected and quantified. HRP conjugated Streptavidin is widely used for the detection and quantification of biotinylated proteins.

## Clinical and Translational Updates

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