

**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

**Purity**

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

**Formulation**

Lyophilized from 0.22 µm 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.

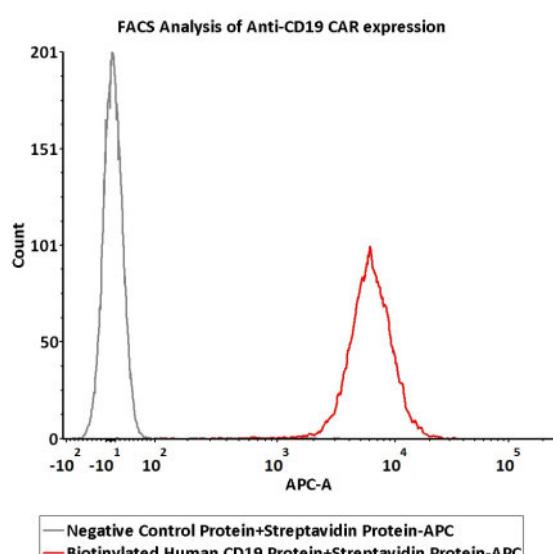
*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.***Storage**

For long term storage, the product should be stored at lyophilized state at -20°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 24 months in lyophilized state;
- -70°C for 6 months after reconstitution;
- 2-8 °C for 6 months under sterile conditions after reconstitution.

**Bioactivity-FACS**

5e5 of Anti-CD19 CAR-293 cells were stained with 100 µL of 20 µg/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 µg/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.

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