

## FITC Conjugated Streptavidin

### Summary:

**Cat. Number:** SF068

**Quantity size:** 0.1mL/1mL

**Concentration:** 1-2mg/mL Buffer=0.01M PBS (pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

**Storage:** Shipped at 4°C, Store at -20°C at least one year (Avoid repeated freeze/thaw cycles).

### Background:

The FITC labeled streptavidin developed by solarbio have strong binding power with biotin labeled antibody. Streptomyces avidin (SA) is the secretion of Streptomyces avidinii. Its molecular weight and ability to bind biotin are similar to the avidin in egg white and non-specific binding far lower than avidin. Streptavidin is a tetrameric protein with a size of 66KDa. One molecule of streptavidin can bind to four molecules of biotin highly specifically, and the affinity between the two is extremely strong. The dissociation constant of the streptavidin-biotin complex is on the order of 10 mol/L.

### Application:

IF=1:50-500

Excitation spectrum: 495nm

Emission spectrum: 525nm

Not yet tested in other applications.

Dilution is subject to the product label. Optimal working dilutions must be determined by the end user.

### Related products:

SP034 rabbit IgG immunoglobulin antigen

SPA131 Goat anti-mouse IgG (purified)

SF134 Goat anti-rabbit IgG-FITC

SE237 Rabbit anti-pig IgG-HRP

A1820 HRP-labeled antibody dilution

### Related literature:

- [1] Xuanxuan Wang et al. LINP1 facilitates DNA damage repair through non-homologous end joining (NHEJ) pathway and subsequently decreases the sensitivity of cervical cancer cells to ionizing radiation. Cell Cycle. June 2018 (IF=3.645)
- [2] Chun Liufu et al. Synergistic ultrasonic biophysical effect-responsive nanoparticles for enhanced gene delivery to ovarian cancer stem cells. Drug Delivery. July 2020 (IF=4.92)
- [3] Wenjie Liu et al. An artificial intelligence process of immunoassay for multiple biomarkers based on logic gates. Analyst. November 2020 (IF=4.033)

**Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.