Hello Bio, Inc. 304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500 F. 609-228-4994

customercare-usa@hellobio.com



# **DATASHEET**

Streptavidin Janelia Fluor® 549

### **Product overview**

Name Cat No Biological description

Streptavidin Janelia Fluor® 549 HB18064

Streptavidin Janelia Fluor® 549 is a biotin binding protein conjugated with the fluorescent dye Janelia Fluor® 549 and can be used to detect biotin labelled molecules such as nucleic acids, antibodies, and other proteins. Biotinylated antibodies are bound with extremely high affinity by Streptavidin Janelia Fluor® 549 enabling immunofluorescent detection in IHC, ICC, flow cytometry and Western blot. Janelia Fluor® 549 and the other members of the Janelia Fluor® family are bright and highly photostable fluorophores particularly suited for super resolution imaging such as dSTORM and STED.

### Key features:

- Conjugated with Janelia Fluor® 549 (Ex: 552nm, Em: 579nm)
- Supplied as a more stable lyophilate
- Bright and photostable signal for repeated imaging
- For use in IHC(IF), ICC, Western blotting and Flow cytometry
- Suited for super resolution imaging including dSTORM and STED

E. coli

fluorescence imaging, ICC, IF, IHC

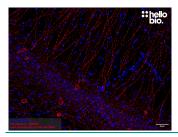
Janelia Fluor® 549 conjugated streptavidin for detection and signal amplification of biotin coupled proteins and antibodies.

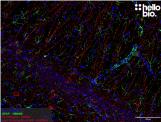
## **Images**

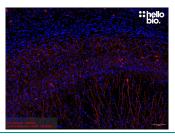
Species of origin

**Applications** 

Description









## **Biological Data**

### **Application notes**

### #Protocol 1: Detecting biotin-labelled antibodies in IHC

- 1. Incubate free floating rat brain sections ( $40\mu m$ ) in sodium borohydride (NaBH<sub>4</sub>) for 15 minutes followed by 2 hours in blocking buffer (0.05M glycine, 2% BSA and 3% donkey serum).
- 2. Incubate sections with primary antibody in blocking buffer at 4°C overnight, as in our IHC protocol.
- 3. Wash sections three times in PBST for 5 minutes each.
- 4. Incubate sections with 2  $\mu$ g/mL goat anti-mouse biotin antibody HB11345 or goat anti-rabbit antibody HB11036 diluted in blocking buffer for 2 hours at RT.

- 5. Wash sections three times in PBST for 5 minutes each.
- 6. Incubate sections with 1 µg/mL Streptavidin Janelia Fluor® 549 in blocking buffer for 2 hours.
- 7. Wash sections three time in PBST for 5 minutes each.
- 8. Incubate sections with 10  $\mu g/mL$  DAPI for 10 minutes.
- 9. Wash sections in dH<sub>2</sub>O, mount on glass slides with mounting media and cover with coverslip.
- 10. Image the sections on a microscope using a 561nm laser or TRITC filter set to excite Streptavidin Janelia Fluor® 549.

# **Solubility & Handling**

Storage instructions Reconstitution advice

-20°C then use reconstitution advice