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# DATASHEET

Streptavidin Janelia Fluor® 549

## Product overview

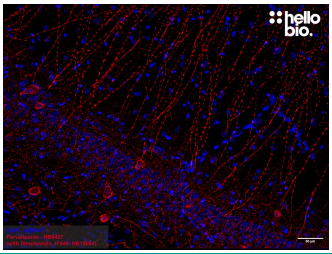
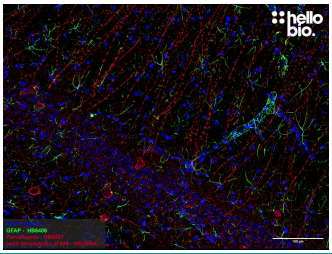
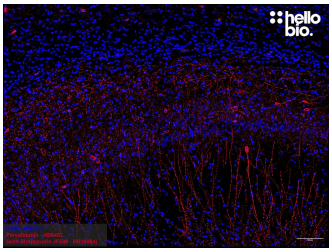
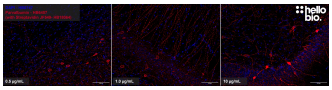
**Name** Streptavidin Janelia Fluor® 549
**Cat No** HB18064
**Biological description** Streptavidin Janelia Fluor® 549 is a biotin binding protein conjugated with the fluorescent dye Janelia Fluor® 549 and can be used to detect biotin labelled molecules such as nucleic acids, antibodies, and other proteins. 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

**Species of origin** E. coli
**Applications** fluorescence imaging, ICC, IF, IHC
**Description** Janelia Fluor® 549 conjugated streptavidin for detection and signal amplification of biotin coupled proteins and antibodies.

## Images

## Biological Data

**Application notes**

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

1. Incubate free floating rat brain sections (40µm) in sodium borohydride ($NaBH_4$) 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 µg/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 µg/mL DAPI for 10 minutes.

9. Wash sections in $dH_2O$, 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

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| **Storage instructions** | -20°C then use reconstitution advice |
| **Reconstitution advice** | |