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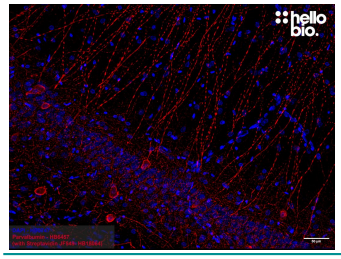
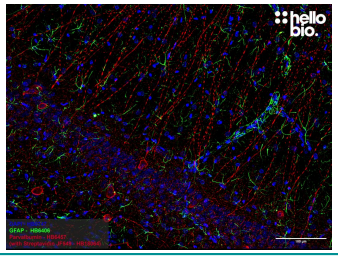
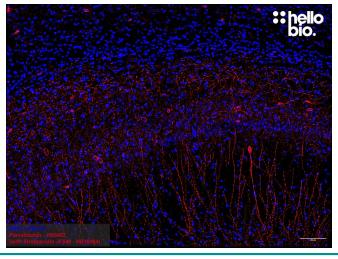
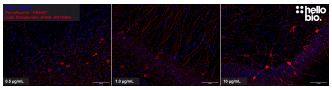
DATASHEET

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

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