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DATASHEET

Streptavidin Janelia Fluor® 646

Product overview

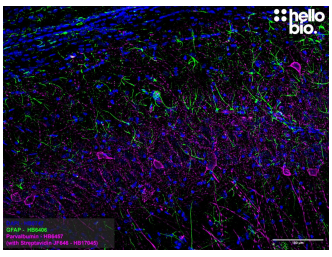
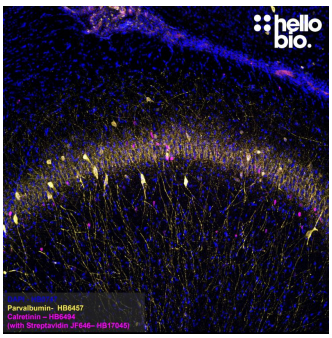
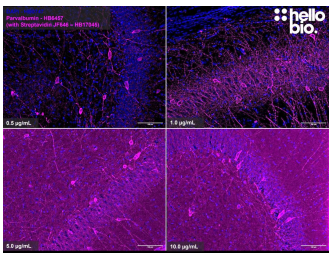
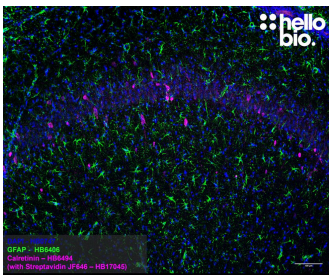
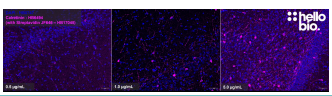
Name Streptavidin Janelia Fluor® 646
Cat No HB17045
Biological description Streptavidin Janelia Fluor® 646 is a biotin binding protein conjugated with the fluorescent dye Janelia Fluor® 646 and can be used to detect biotin labelled molecules such as nucleic acids, antibodies, and other proteins. Biotinylated antibodies are bound with extremely high affinity by Streptavidin Janelia Fluor® 646 enabling immunofluorescent detection in IHC, ICC, flow cytometry and Western blot. Janelia Fluor® 646 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® 646 (Ex: 652nm, Em: 675nm)
- 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® 646 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® 646 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 640nm laser or Cy5 filter set to excite Streptavidin Janelia Fluor® 646.

Solubility & Handling

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