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DATASHEET

Streptavidin Janelia Fluor® 646

Product overview

Name Cat No Biological description Streptavidin Janelia Fluor® 646 HB17045

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

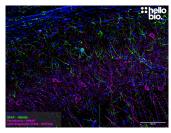
Species of origin

Applications Description E. coli

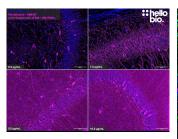
fluorescence imaging, ICC, IF, IHC

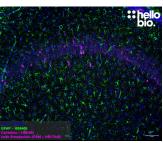
Janelia Fluor® 646 conjugated streptavidin for detection and signal amplification of biotin coupled proteins and antibodies.

Images











Biological Data

Application notes

#Protocol 1: Detecting biotin-labelled antibodies in IHC

- 1. Incubate free floating rat brain sections ($40\mu m$) in sodium borohydride (NaBH₄) 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 μ 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 μ g/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 $\mu g/mL$ DAPI for 10 minutes.
- 9. Wash sections in dH₂O, 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 Reconstitution advice

-20°C then use reconstitution advice