

# DATASHEET

## Streptavidin Janelia Fluor® 646

### Product overview

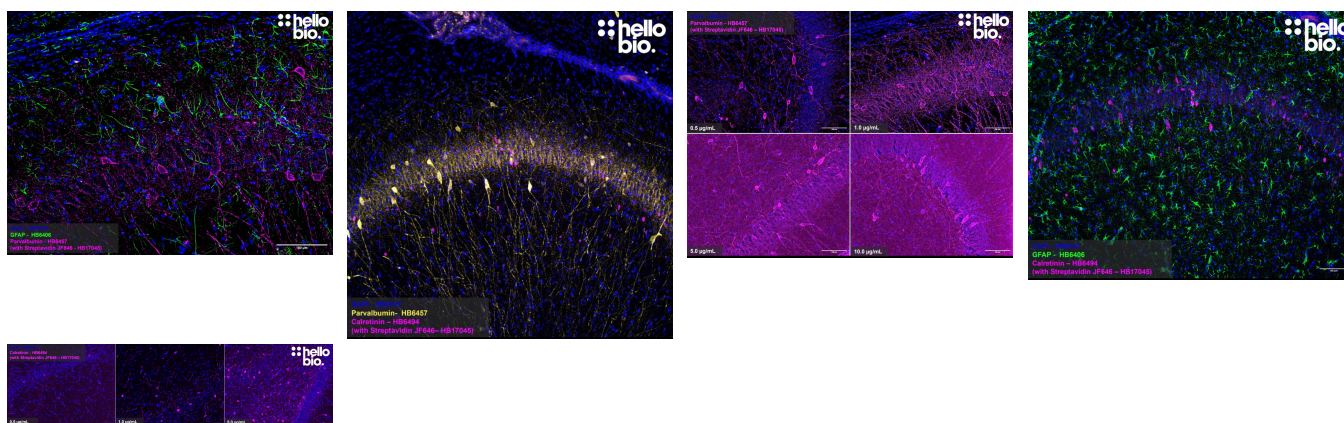
**Name** Streptavidin Janelia Fluor® 646  
**Cat No** HB17045  
**Biological description** Streptavidin Janelia Fluor® 646 is a biotin binding protein conjugated with the fluorescent dye Janelia Fluor® 646 and can be used to detect biotin labelled molecules such as nucleic acids, antibodies, and other 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<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 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<sub>2</sub>O, 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.
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## Solubility & Handling

**Storage instructions**  
**Reconstitution advice**

-20 °C then use reconstitution advice