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DATASHEET

Streptavidin AF488

Product overview

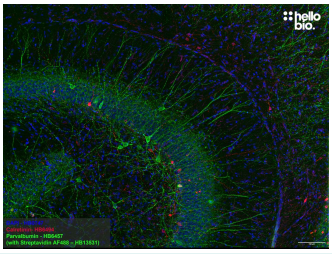
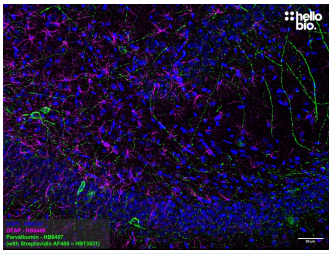
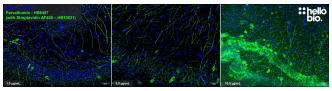
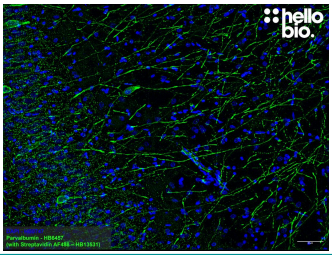
Name	Streptavidin AF488
Cat No	HB13531
Biological description	Streptavidin AF488 is a biotin binding protein conjugated with the fluorescent dye AF488 and can be used to detect biotin labelled molecules such as nucleic acids, antibodies, and other proteins. Biotinylated antibodies are bound with extremely high affinity by Streptavidin AF488 enabling immunofluorescent detection in IHC, ICC, flow cytometry and Western blot.

Key features:

- Conjugated with AF488 (Ex: 498nm, Em: 525nm)
- Supplied as a more stable lyophilate
- Bright and photostable signal for repeated imaging
- Suited for IHC(IF), ICC, Western blotting and Flow cytometry

Species of origin	E. coli
Applications	fluorescence imaging, ICC, IF, IHC
Description	AF488 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 AF488 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 either a 488nm laser or GFP filter set to excite Streptavidin AF488.

Solubility & Handling

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