



## Product Information

### Streptavidin Conjugates

| Cat. No. | Product Name                | Unit Size |
|----------|-----------------------------|-----------|
| L155A    | Andy Fluor 350 Streptavidin | 100 µg    |
| L155B    | Andy Fluor 350 Streptavidin | 500 µg    |
| L156A    | Andy Fluor 488 Streptavidin | 100 µg    |
| L156B    | Andy Fluor 488 Streptavidin | 500 µg    |
| L157A    | Andy Fluor 555 Streptavidin | 100 µg    |
| L157B    | Andy Fluor 555 Streptavidin | 500 µg    |
| L158A    | Andy Fluor 594 Streptavidin | 100 µg    |
| L158B    | Andy Fluor 594 Streptavidin | 500 µg    |
| L159A    | Andy Fluor 647 Streptavidin | 100 µg    |
| L159B    | Andy Fluor 647 Streptavidin | 500 µg    |
| L160A    | Cy3 Streptavidin            | 100 µg    |
| L160B    | Cy3 Streptavidin            | 500 µg    |
| L161A    | Cy5 Streptavidin            | 100 µg    |
| L161B    | Cy5 Streptavidin            | 500 µg    |

#### Spectral Properties:

| Product Name                | Ex nm | Em nm |
|-----------------------------|-------|-------|
| Andy Fluor 350 Streptavidin | 345   | 440   |
| Andy Fluor 488 Streptavidin | 495   | 520   |
| Andy Fluor 555 Streptavidin | 553   | 565   |
| Andy Fluor 594 Streptavidin | 590   | 615   |
| Andy Fluor 647 Streptavidin | 650   | 665   |
| Cy3 Streptavidin            | 550   | 565   |
| Cy5 Streptavidin            | 650   | 667   |

#### Storage upon receipt:

- -20 °C
- Protect from light
- Avoid freeze-thaw cycles

### Product Description

Applied BioProbes offers a variety of streptavidin conjugates with our outstanding series of Andy Fluor™ dyes. Andy Fluor™ dyes are superior to other fluorescent dyes for protein labeling by having advantages in brightness, photostability, specificity and novel features ideal for in vivo imaging.

Streptavidin conjugates are commonly used as secondary reagent to localize antigens in cells and tissues, and to detect biomolecules in immunoassays and DNA hybridization techniques.

### Product Specification

**Physical State:** Lyophilized power

**Buffer:** PBS, pH 7.4

**Stabilizer:** 0.1% BSA

**Preservative:** 0.02% Sodium Azide

**Reconstitution and Storage:** Store lyophilized power at 2-8°C. When ready to use, rehydrate with dH<sub>2</sub>O (50 µL for 100

µg antibody or 250 µL for 500 µg antibody) to make 2 mg/mL solution and centrifuge if not clear. Product is stable for about 6 months at 2-8°C as an undiluted liquid. Prepare working dilution fresh each day. For extended storage after rehydration, add an equal volume of glycerol for a final concentration of 50%, and store at -20 °C as a liquid.

### Guidelines for Use

Streptavidin conjugates are used as secondary detection reagents to detect biotinylated probes in histochemical application, flow cytometry, blot analysis, and immunoassays. The following are commonly used methods for employing streptavidin conjugates as a secondary detection reagent.

A biotinylated primary probe such as an antibody, single-stranded nucleic acid probe, or lectin is bound to tissues, cells, or other surfaces. Excess protein is removed by washing, and detection is mediated by streptavidin conjugate.

Centrifuge the protein conjugate solution briefly in a microcentrifuge before use. Add only the supernatant to the experiment. This step eliminates any protein aggregates that may have formed during storage, thereby reducing nonspecific background staining.

Because staining protocols vary with application, determine appropriate dilutions of streptavidin conjugates empirically. A final concentration of 1–10 µg/mL should be satisfactory for most histochemical applications.