

## APC-Streptavidin

Cat #: B-CHM302

Size: 10mg

Storage: Store at 4°C protected from light.

### Product Introduction

Streptavidin-phycoerythrin conjugates can be used to detect biotinylated molecules with extremely high sensitivity.

They are commonly used as secondary reagents to detect biotinylated primary probes such as antibodies in applications like flow cytometry, protein immunoblotting, immunocytochemistry and others.

The APC conjugate of streptavidin consists of a biotin-binding protein (streptavidin) covalently bound to a fluorescent label (allophycocyanin). Streptavidin binds biotin with very high affinity, so conjugates with streptavidin are commonly used together with conjugates with biotin specifically to detect various proteins, protein variants, nucleic acids or other molecules (for example, after a biotinylated primary antibody binds to a target protein, the fluorescent streptavidin can detect it). Streptavidin-APC has tremendous utility in developing biotin-streptavidin detection schemes for flow cytometric analysis, microplate assays and chip applications. This APC streptavidin conjugate is provided in a high purity (confirmed by HPLC) format.

### Product Properties

**Form:** Blue solution

**Spectral properties:** Ex / Em = 652 / 662 nm

**Solution components:** 0.5mg/ml in pH ~7.4 PBS, 2mg/mL bovine serum albumin (IgG and protease free), 0.05% sodium azide

### Shipping and Storage

**Storage conditions:** Store at 4°C protected from light.

**Stability:** Stable for at least 6 months under proper storage conditions.

## Product Advantages

- Brightness 5-10 times higher than organic dyes
- Extremely high solubility in aqueous solutions
- No unconjugated streptavidin; in most cases, no unconjugated APC
- Highly suited for flow cytometry, microplate and microarray applications
- For most fluorescent streptavidin applications, recommended concentrations are 1-10 µg/mL, with optimal conditions to be determined by the user.

