

# Streptavidin(iFluor594)

## Summary

|               |   |
|---------------|---|
| Code          | 067-101-008   |
| Conjugate     | iFluor594(Ex: 592nm, Em: 614nm), 2 moles iFluor594 per mole streptavidin                |
| Concentration | 1mg/mL  |
| Buffer        | Liquid, 10mM PBS(pH 7.5), 0.05% sucrose, 0.1% trehalose, 0.01% proclin300, 50% Glycerol |
| Storage       | Store at -20 °C, protect from light   |

## Description

Streptavidin(iFluor594) is coupled streptavidin with iFluor488. Streptavidin(iFluor594) is highly sensitive to binds biotinylated proteins in enzyme immunoassay, immunoblotting, immunohistochemistry, flow cytometry systems.

## Background

Streptavidin is a 53 kDa protein isolated from *Streptomyces avidinii*. Streptavidin has a molecular weight of 60 KD and contains 4 subunits. Each subunit can bind one molecule of biotin. Streptavidin has strong binding properties to avidin ( $K_d=10^{-15}$ ). Because of its strong non-covalent interaction with biotin, streptavidin can be used to detect and isolate biotinylated proteins.

## Suggested Working Concentration

|          |                   |
|----------|-------------------|
| Flow Cyt | 1:200-1:2000      |
| WB       | 1:10,000-1:50,000 |
| ELISA    | 1:10,000-1:50,000 |

Dilution factors are presented in the form of a range because the optimal dilution is a function of many factors, such as antigen density, permeability, etc. The actual dilution used must be determined empirically.

This product is for research use only and is not approved for use in humans or in clinical