

## Streptavidin (PE)

Cat. No. GTX05034

**Applications** ICC/IF, IHC-Fr, FCM, Dot, ELISA, Functional Assay, Multiplexing**Package**  
1 ml

## PRODUCT

## Summary

Streptavidin is a bacterial protein (from *Streptomyces avidinii*) that has an exceptionally high binding affinity for biotin. Streptavidin-biotin binding is one of the strongest known noncovalent interactions and is highly resistant to many conditions that would typically cause dissociation (such as organic solvents, denaturants, detergents, and extreme temperatures or pH). Streptavidin's affinity for biotin can be employed in a variety of experimental uses, from purifications to standards, to means of detection or pull down experiments. Phycoerythrin (PE) is a red-pigmented protein found in cyanobacteria and red algae. Phycoerythrin absorbs light blue-green/yellow light and emits lightly orange/yellow light.

## Applications

## Application Note

\*Optimal dilutions/concentrations should be determined by the researcher.

## Suggested dilution

## Recommended dilution

ICC/IF Assay dependent

IHC-Fr 1:100-1:250

FCM 1:100 - 1:250

Dot Assay dependent

ELISA Assay dependent

Functional Assay Assay dependent

Multiplexing Assay dependent

**Note : Do not need a permeabilization step.**

Not tested in other applications.

## Properties

**Form** Liquid**Buffer** 20 mM K<sub>3</sub>PO<sub>4</sub>, 150 mM NaCl, 1% BSA**Preservative** 0.01% Sodium Azide**Storage** Store as concentrated solution. Centrifuge briefly prior to opening vial. Store at 4°C. DO NOT FREEZE.**Concentration** 0.5 mg/ml (Please refer to the vial label for the specific concentration.)**Purification** Purified streptavidin (PE) electrophoretically  
Free fluorochrome is removed by tandem molecular sieve chromatography.**Conjugation** Phycoerythrin (PE) [Wavelength](#)

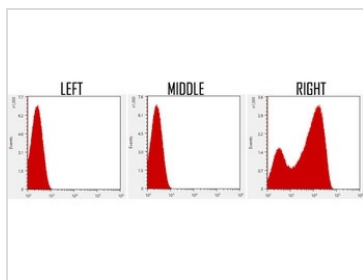
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**Note**

Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

DATA IMAGES



**GTX05034 FCM Image**

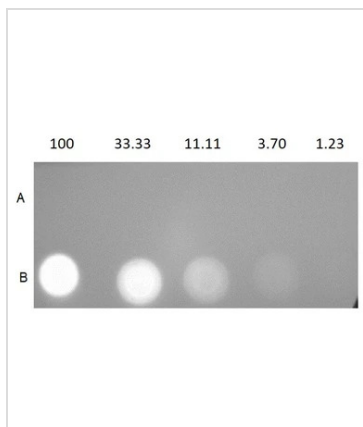
FACS analysis of the cell surface of *Saccharomyces cerevisiae* with/without biotin conjugation using GTX05034 Streptavidin (PE).

Left : Unconjugated sample (Unstained)

Middle : Unconjugated sample with GTX05034 (Negative control)

Right : Biotinylated sample with GTX05034

Dilution : 1:200



**GTX05034 Dot Image**

Dot blot analysis of serial diluted BSA with/without biotin conjugation using GTX05034 Streptavidin (PE).

Row A : BSA

Row B : BSA with Biotin conjugation

Dot amount :

Lane 1 : 100ng

Lane 2 : 33.33ng

Lane 3 : 11.11ng

Lane 4 : 3.70ng

Lane 5 : 1.23ng

GTX05034's dilution : 1µg/mL



For full product information, images and publications, please visit our [website](#).