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 : The maximum amount of Streptavidin (PE) required to stain 1 x 10^6 cells in FACS is approximately 1.0 µg of antibody conjugate.	

Not tested in other applications.

Properties

Form	Liquid
Buffer	20 mM K3PO4, 150 mM NaCl, 1% BSA
Preservative	0.01% Sodium Azide
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. Store at 4ºC. 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

For full product information, images and publications, please visit our website.

GeneTex, Inc. (North America)
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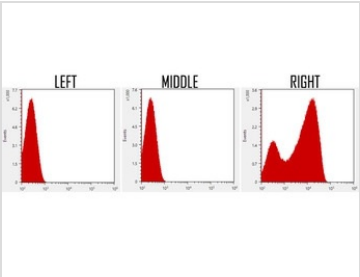
Note

For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

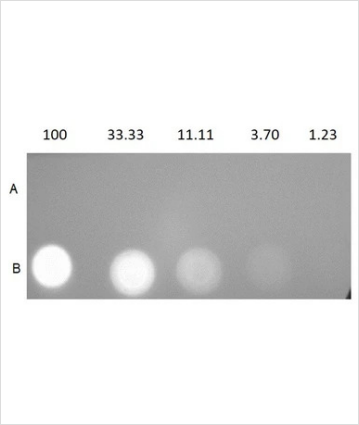
Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

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

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