

Product Specification Sheet

Streptavidin- R-Rhycerythrin (PE)-TR (Texas Red) conjugate

Cat. # SV-PETR-100

Streptavidin-PE-TR (Texas red) conjugate

SIZE: 100 ug

Highly purified Streptavidin from *Streptomyces avidinii* was coupled to R-Rhycerythrin (PE)-TR (Texas Red) using proprietary methods.

Buffer: PBS, pH 7.4, 0.05% azide

Concentration: Lot specific conc see vial (typically 0.2 mg/ml).

Storage: 4oC under dark. Do not expose to light for extended periods. Do not freeze and thaw.

Suggested Applications

SV-PETR-100 is a tandem fluorochrome composed of R-phycoerythrin (PE), which is excited by the 488-nm light of an Argon ion laser and serves as an energy donor, coupled to the Texas Red. molecule, which acts as the energy acceptor and fluoresces at 615 nm.

SV-PETR-100 is a useful second-step reagent for the indirect immunofluorescent staining of cells in combination with biotinylated primary antibodies for flow cytometric analysis.

Actual usable concentrations of this product in a given techniques will vary under various experimental conditions. We suggest that concentration be optimized for a given technique.

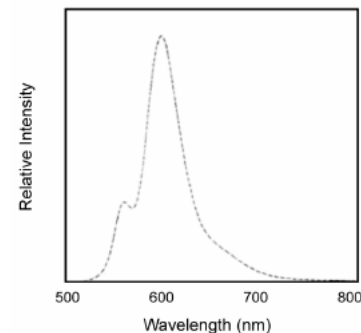
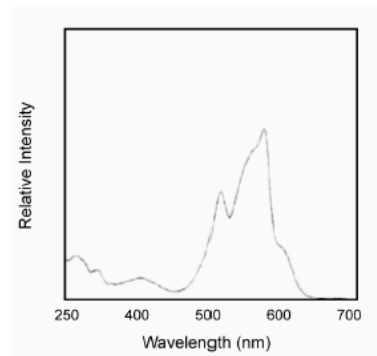
Single-laser cytometers equipped with 650- or 670-nm long-pass filters. Flow Cytometry Systems are not optimal for the detection of PE-Texas Red and will require higher compensation for FL2 - FL3.

Because of the broad absorption spectrum of the tandem fluorochrome, extra care must be taken when using dual-laser cytometers with dye lasers, which may directly excite both PE and Texas Red.. We recommend the use of cross-beam compensation during data acquisition or software compensation during data analysis. We recommend that a 610/20-nm band-pass filter be used for optimum fluorescence detection of PE-Texas Red emission.

Recommended Assay Procedure:

PE-Texas Red is a tandem fluorochrome composed of R-phycoerythrin (PE), which is excited by the 488-nm light of an Argon ion laser and serves as an energy donor, coupled to the Texas Red. molecule, which acts as the energy acceptor and fluoresces at 615 nm.

SV-PETR-100 is a useful second-step reagent for the indirect immunofluorescent staining of cells in combination with biotinylated primary antibodies for flow cytometric analysis.



Streptavidin-PE-Texas Red spectra. is shown above and the corresponding emission spectrum, at the excitation wavelength of 488 nm, appears in the right panel.

Antibody concentration must be optimized for each application under defined experimental conditions.

General References: Shapiro HM. *Practical Flow Cytometry, 3rd Edition.* New York: Wiley-Liss, Inc; 1995:280-281.

*This product is for In vitro research use only.

Related material available from ADI

SV-PETR-100

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