

Streptavidin - R-Phycoerythrin (R-PE)

Applicable to: 2011-0100 (100µg), 2011-1000 (1mg)

Release 3. © EXPEDEON. 11/12/2018

INTRODUCTION

Our streptavidin conjugates are produced using our Lightning-Link® bioconjugation technology, therefore providing high quality, stable covalent conjugates for use in your application.

| PRODUCT DETAILS | |
|-----------------|-----------------------------|
| Specificity | Biotin |
| Host species | <i>E.Coli</i> and red algae |
| Format | Lyophilized |
| Buffer | Phosphate buffer |
| Preservatives | None |
| Shipping | Ambient temperature |
| Storage | -20°C |
| Shelf life | 2 years |

BACKGROUND INFORMATION

Streptavidin is purified from the bacterium *Streptomyces avidinii*. It is a tetrameric protein that is composed of identical subunits, with the tetramer having a molecular weight of approximately 53kDa. Each subunit binds one biotin molecule with a very high degree of specificity and affinity. The K_d for this interaction is in the region of $10^{-15}M$.

R-Phycoerythrin (R-PE) is a 240kDa phycobiliprotein that is isolated from red algae. R-PE has a bright red-orange fluorescence with a high quantum yield, and is brighter than other conventional fluorophores and phycobiliproteins. The absorbance spectrum of R-PE covers a range of excitation wavelengths, which provides an advantage for multi-colour immunofluorescent staining or cell-sorting. The emission maximum of R-PE is at 575nm. R-PE is used for fluorescence-based detection, often in assays which require high sensitivity.

SHIPPING CONDITIONS

The product is shipped at ambient temperature. Store the product at -20°C upon receipt.

POTENTIAL APPLICATIONS

Including, but not limited to:

- Flow cytometry
- ELISA
- Immunoblotting
- Immunohistochemistry
- Immunocytochemistry

RELATED PRODUCTS

Our Lightning-Link® Biotin conjugation kits allow you directly conjugate your primary antibody to biotin in under 20 minutes with only 30 seconds hands-on time:

<https://www.expedeon.com/products/protein-antibody-conjugation/lightning-link-antibody-labeling-kits/biotin-streptavidin-labeling-kits/>

For technical enquiries get in touch with our technical support team at: technical.enquiries@expedeon.com

For further information see our website: www.expedeon.com

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