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Product datasheet for RA021PE

Streptavidin Protein

Product data:

Product Type:	Native Proteins
Description:	Streptavidin protein, 1 ml
Protein Source:	S. avidinii
Concentration:	lot specific
Purity:	Prepared from electrophoretically purified streptavidin isolated from Streptomyces avidinii conjugated to the chromophore R-Phycoerythrin. Free fluorochrome is removed by tandem molecular sieve chromatographies.
Conjugation:	PE
Buffer:	State: Lyophilized purified Ig fraction Buffer System: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, with 10 mg/ml BSA as a stabilizer and 0.01% Sodium Azide as a preservative **Label**: R-Phycoerythrin (R-PE) (MW 240, 000 daltons). Absorption/Emission Wavelength: 488 nm/575 nm OD566 nm/OD280 nm: 2.5 Presentation Label: PE
Reconstitution Method:	Restore with 1.0 ml of deionized water (or equivalent).
Preparation:	Lyophilized purified Ig fraction
Applications:	This reagent has been specifically designed for the detection of biotinylated biological probes such as antibodies or cytokines in Flow Cytometry or Immunhistochemisty. The maximum amount of reagent to stain 1 x 10e6 cells in Flow Cytometry is approximately 1.0 µg of Streptavdin RPE. Lesser amounts of reagent may be sufficient for staining. As a general guideline dilutions of 1/100-1/250 should be suitable for most applications. Recommended Dilutions: Flow Cytometry: 1/100-1/250. IF Microscopy: 1/100-1/250
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.

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Synonyms: StAv

Summary: Streptavidin, a tetrameric protein secreted by Streptomyces avidinii, binds tightly to a small growth factor biotin. It finds wide use in molecular biology through its extraordinarily strong affinity for the vitamin biotin; the dissociation constant (Kd) of the biotin-streptavidin complex is on the order of ~10-15 mol/L. The high affinity recognition of biotin and biotinylated molecules has made streptavidin one of the most important components in diagnostics and laboratory kits.

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