

Streptavidin (PE conjugated)

Alternate names:	StAv
Catalog No.:	RA021PE
Quantity:	1 ml
Concentration:	0.5 mg/ml (by UV absorbance = 82.0 at 565)
Background:	<p>Streptavidin, a tetrameric protein secreted by <i>Streptomyces avidinii</i>, 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 (K_d) 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.</p>
Uniprot ID:	P22629
NCBI:	1895
Source:	<i>S. avidinii</i>
Format:	<p>State: Lyophilized purified Ig fraction</p> <p>Purity: Prepared from electrophoretically purified streptavidin isolated from <i>Streptomyces avidinii</i> conjugated to the chromophore R-Phycoerythrin. Free fluorochrome is removed by tandem molecular sieve chromatographies.</p> <p>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</p> <p>Label: R-Phycoerythrin (R-PE) (MW 240,000 daltons).</p> <p>Absorption/Emission Wavelength: 488 nm/575 nm</p> <p>OD566 nm/OD280 nm: 2.5</p> <p>Reconstitution: Restore with 1.0 ml of deionized water (or equivalent).</p>
Applications:	<p>This reagent has been specifically designed for the detection of biotinylated biological probes such as antibodies or cytokines in Flow Cytometry or Immunohistochemistry. The maximum amount of reagent to stain 1 x 10⁶ cells in Flow Cytometry is approximately 1.0 µg of Streptavidin 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.</p> <p>Recommended Dilutions:</p> <p>Flow Cytometry: 1/100-1/250.</p> <p>IF Microscopy: 1/100-1/250</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

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.
Shelf life: one year from despatch.

General References: Conjugation References: Modified from the method of Carlsson J, Drevin H, and Axen R.
Protein thiolation and reversible protein-protein conjugation. Biochem J 173, 723-737
(1978).