

Protein A - FITC

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| Alternate names: | SPA, Staphylococcal protein A, Staphylococcus aureus protein A |
| Catalog No.: | RA100F |
| Quantity: | 5 mg |
| Concentration: | 1.0 mg/ml (by UV absorbance at 280 nm) |
| Background: | <p>Protein A is a surface protein of <i>S.aureus</i> which binds IgG molecules by their Fc region. In serum, the bacteria will bind IgG molecules in the wrong orientation on their surface which hinders opsonization and phagocytosis. Mutants of <i>S. aureus</i> lacking protein A are more efficiently phagocytosed in vitro, and mutants in infection models have diminished virulence.</p> <p>Due to its affinity for the Fc region of many mammalian immunoglobulins, protein A is considered a universal reagent in biochemistry and immunology.</p> |
| Species: | <i>S. aureus</i> |
| Format: | <p>State: Lyophilized purified Ig fraction.</p> <p>Purity: This product was prepared from chromatographically pure Protein A. Assay by Immunoelectrophoresis resulted in a single precipitin arc against anti-Fluorescein and anti-Protein A.</p> <p>Buffer System: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 containing 10 mg/ml BSA (IgG and Protease free) as stabilizer and 0.01% (w/v) Sodium Azide as preservative.</p> <p>Label: Fluorescein isothiocyanate (FITC) (Molecular Weight 390 daltons).</p> <p>Absorption/Emission Wavelength: 495 nm/528 nm.</p> <p>Fluorochrome/Protein Ratio: 4.6 moles FITC per mole of Protein A.</p> <p>Reconstitution: Restore with 5.0 ml of deionized water (or equivalent).</p> |
| Applications: | <p>Immunofluorescence Microscopy (1/1,000-1/5,000)</p> <p>Flow Cytometry/FACS (1/1,000-1/5,000) as well as other antibody based fluorescent assays.</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p> |
| Description: | <p>Fluorescein Conjugated Protein A.</p> <p>Molecular weight: 42,000 daltons</p> |
| Storage: | <p>Store vial at 2-8°C prior to restoration.</p> <p>For extended storage aliquot contents and freeze at -20°C or below.</p> <p>Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 2-8°C as undiluted liquid. Dilute only prior to immediate use.</p> <p>Shelf life: one year from despatch.</p> |

General References: 1. The and Feltkamp, Immunology 18; 865, 1970. (Conjugation))

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.

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