

## Protein G -FITC Conjugated

<b>Catalog No.:</b>	RA101F
<b>Quantity:</b>	1 mg
<b>Concentration:</b>	2.2 mg/ml (by UV absorbance at 280 nm)
<b>Background:</b>	<p>Protein G is a bacterial protein derived from the cell wall of certain strains of b-hemolytic Streptococci. It binds with high affinity to the Fc portion of various classes and subclasses of immunoglobulins from a variety of species. Protein G binds to all IgG subclasses from human, mouse and rat species. It also binds to total IgG from guinea pig, rabbit, goat, cow, sheep, and horse.</p> <p>Protein G binds preferentially to the Fc portion of IgG, but unlike Protein A can also bind to the Fab region, making it useful for purification of F(ab') fragments of IgG. Due to its affinity for the Fc region of many mammalian immunoglobulins, protein G is considered a universal reagent in biochemistry and immunology.</p>
<b>Species:</b>	Streptococcus
<b>Format:</b>	<p><b>State:</b> Lyophilized purified Ig fraction.</p> <p><b>Purity:</b> : This product was prepared from chromatographically pure Protein G.</p> <p><b>Buffer System:</b> 0.02M Potassium Phosphate, 0.15M Sodium Chloride, pH 7.2 with 10 mg/ml BSA (IgG and Protease free) as stabilizer and 0.01% (w/v) Sodium Azide as preservative.</p> <p><b>Label:</b> Fluorescein isothiocyanate (FITC) (Molecular Weight 390 daltons)</p> <p><b>Absorption/Emission Wavelength:</b> 495 nm/528 nm</p> <p><b>Fluorochrome/Protein Ratio:</b> 2.0 moles FITC per mole of Protein G.</p> <p><b>Reconstitution:</b> Restore with 1.0 ml of deionized water (or equivalent).</p>
<b>Applications:</b>	<p>Suitable for immunomicroscopy and flow cytometry or FACS analysis as well as other antibody based fluorescent assays.</p> <p>This product is designed for Immunofluorescence Microscopy, fluorescence based plate assays (FLISA) and Fluorescent Western blotting.</p> <p>This product is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms.</p> <p>FLISA: 1/10,000-1/50,000.</p> <p>IF Microscopy: 1/1,000-1/5,000.</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
<b>Description:</b>	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Fluorescein and anti-Protein G. No reaction was observed against anti-Protein A.

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**Storage:**

Store vial at 2-8°C prior to restoration. For extended storage reconstitute product with 50% glycerol instead of water and then aliquot contents and freeze at -20°C or below.

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 an undiluted liquid.

Dilute only prior to immediate use.

Shelf life: one year from despatch.

**General References:** 1. Conjugation - The and Feltkamp, Immunology 18; 865, 1970.

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