

Product datasheet for **RA101B**

Protein G Streptococcus Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Protein G streptococcus protein, 0.5 mg
Species:	Streptococcus
Concentration:	lot specific
Purity:	: This product was prepared from chromatographically pure Protein G.
Conjugation:	Biotin
Buffer:	State: Lyophilized (sterile filtered) Ig fraction. Buffer System: 0.02M Potassium Phosphate, 0.15M Sodium Chloride, pH 7.2 containing 10 mg/ml BSA (Immunoglobulin and Protease free) as stabilizer and 0.01% (w/v) Sodium Azide as preservative. Label: Biotin Presentation Label: Biotin
Reconstitution Method:	Restore with 0.5 ml of deionized water (or equivalent). For extended storage, mix product with Glycerol to 50%
Preparation:	Lyophilized (sterile filtered) Ig fraction.
Applications:	ELISA : 1/20,000-1/200,000. Western Blot: 1/10,000-1/40,000. Immunochemistry: 1/1,000-1/5,000.
Protein Description:	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-biotin and anti-Protein G. No reaction was observed against anti-Protein A.
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store the protein 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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Summary:

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.

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.