

Product datasheet for **RA101HRP**

Protein G Streptococcus Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Protein G streptococcus protein, 1 mg
Species:	Streptococcus
Concentration:	lot specific
Purity:	This product was prepared from Chromatographically pure Protein G.
Conjugation:	HRP
Buffer:	State: Lyophilized purified Ig fraction Buffer System: 0.02M Potassium Phosphate, 0.15M Sodium Chloride, pH 7.2, containing 0.01% (w/v) Gentamicin Sulfate as preservative and 10 mg/ml BSA (IgG and Protease free) as stabilizer. Label: Horseradish Peroxidase (HRP) Presentation Label: HRP
Reconstitution Method:	Restore with 1.0 ml of deionized water (or equivalent)
Preparation:	Lyophilized purified Ig fraction
Applications:	Suitable for Immunoblotting (Western or dot blot), ELISA, Immunoperoxidase Electron Microscopy and Immunohistochemistry as well as other peroxidase-biotin-avidin based enzymatic assays. <u>Recommended Dilutions:</u> ELISA: 1/20,000-1/200,000. Western blot: 1/10,000-1/40,000. Immunohistochemistry: 1/1,000-1/5,000. Protein G Peroxidase is a useful reagent in Western Blotting and ELISA experiments. Protein G Peroxidase can be utilized as a pseudo-secondary detection reagent when used in conjunction with an IgG-based primary antibody and appropriate substrate (such as TMB-1000 or Femtomax-110).
Protein Description:	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase and anti-Protein G. No reaction was observed against anti-Protein A.
Note:	Caution: Do Not Add Sodium Azide.



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Storage:	<p>Store vial at 2-8°C prior to restoration.</p> <p>For extended storage mix product with glycerol to 50% and then aliquot contents and freeze at -20°C or below.</p> <p>Avoid cycles of freezing and thawing.</p> <p>Centrifuge product if not completely clear after standing at room temperature.</p> <p>This product is stable for several weeks at 2-8°C as an undiluted liquid.</p> <p>Dilute only prior to immediate use.</p>
Stability:	Shelf life: one year from despatch.
Summary:	<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>
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