

**PROTEIN G PEROXIDASE Conjugated - PG00-03**
**Code:** PG00-03

**Size:** 1 mg

**Product Description:** PROTEIN G PEROXIDASE Conjugated - PG00-03

**Concentration:** 1.0 mg/mL by UV absorbance at 280 nm

**PhysicalState:** Lyophilized

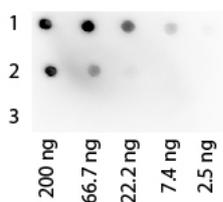
<b>Label</b>	Peroxidase (Horseradish)
<b>Buffer</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Reconstitution Volume</b>	1.0 mL
<b>Reconstitution Buffer</b>	Restore with deionized water (or equivalent)
<b>Stabilizer</b>	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
<b>Preservative</b>	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
<b>Storage Condition</b>	Store vial at 4° C prior to restoration. For extended storage 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. Protein G Peroxidase conjugated is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
<b>Synonyms</b>	ProG, Streptococcus G protein, Protein G HRP, peroxidase, Horseradish peroxidase
<b>Application Note</b>	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).
<b>Background</b>	Protein G is a surface protein of two groups of Streptococcal bacteria that has the ability to bind immunoglobulins. Similar to Protein A, but with slightly different specificity, Protein G is an important agent in the purification of proteins due to its ability to bind the Fc region. While native Protein G binds to albumin, recombinant Protein G is designed to contain only immunoglobulin binding domains to ensure the maximum specific IgG binding capacity. Horseradish Peroxidase (HRP) is an enzyme that utilize organic peroxide compounds as electron donors. Naturally provides protection for plants against pathogens, but can be utilized in molecular biology to convert various substrates to detectable compounds (such as in Western Blotting and ELISAs).
<b>Purity And Specificity</b>	Protein G Peroxidase was prepared from chromatographically pure recombinant Protein G. Protein G Peroxidase was assayed by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase and anti-Protein G. No reaction was observed against anti-Protein A.
<b>Assay Dilutions</b>	User Optimized
<b>ELISA</b>	1:20,000 - 1:200,000
<b>Western Blot</b>	1:10,000 - 1:40,000
<b>Immunohistochemistry</b>	1:1,000 - 1:5,000
<b>Other Assays</b>	User Optimized
<b>Expiration</b>	Expiration date is one (1) year from date of opening.

**Related Products**

FEMTOMAX-110	Chemiluminescent FemtoMax™ Super Sensitive HRP Substrate for Microwell and/or Membrane (2 component system) - FEMTOMAX-110
PA00-03	PROTEIN A PEROXIDASE Conjugated - PA00-03
PG00-02	PROTEIN G Fluorescein Conjugated - PG00-02
S000-03	STREPTAVIDIN PEROXIDASE Conjugated - S000-03

**Images**

1 Dot Blot of Protein G Peroxidase Conjugated. Antigen 1: Human IgG. Antigen 2: Rat IgG. Antigen 3: Dog IgG. Load: 200ng followed by a 3-fold serial dilution. Primary antibody: none. Secondary antibody: Protein G Peroxidase Conjugated at 1:1,000 for 60 min at RT. Block: MB-070 for 60 min at RT.



### Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.