

**Datasheet for 200-403-138****Protein G Antibody Peroxidase Conjugated****Overview**

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|----------------------|----------------------------------------------------------------------|
| <b>Description:</b>  | Anti-Protein G (RABBIT) Antibody Peroxidase Conjugated - 200-403-138 |
| <b>Item No.:</b>     | 200-403-138                                                          |
| <b>Size:</b>         | 20 mg                                                                |
| <b>Applications:</b> | Dot Blot, ELISA                                                      |
| <b>Reactivity:</b>   | Protein G                                                            |
| <b>Host Species:</b> | Rabbit                                                               |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Background:</b>   | <p>Protein G is a protein that has the property of binding to immunoglobulins. It is a 65-kDa cell surface protein that is commonly used for purifying antibodies through binding to the Fab and Fc regions.</p> <p>Protein G was originally isolated from Streptococcal bacteria. It is similar in properties to Protein A but has unique IgG binding specificities. Native protein G also binds albumin, however Rockland uses recombinant forms of Protein G that only bind to immunoglobulins.</p> <p>Horseradish Peroxidase (HRP) is an enzyme that utilizes 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). Anti-Protein G Antibody is ideal for researchers in Immunology, Cancer, and Microbiology.</p> |
| <b>Synonyms:</b>     | rabbit anti-Protein G Antibody HRP Conjugation, Peroxidase conjugated rabbit anti-Protein G Antibody, Protein G HRP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Conjugate:</b>    | Peroxidase (HRP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

**Target Details**

|                    |           |
|--------------------|-----------|
| <b>Reactivity:</b> | Protein G |
|--------------------|-----------|

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen Type:</b>     | Native Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Immunogen:</b>          | Protein G [Streptococcus species]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity/Specificity:</b> | This product is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Rabbit Serum as well as purified and partially purified Protein G [Streptococcus species]. Cross reactivity against Protein G from other tissues and species may occur but have not been specifically determined. |

## Application Details

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Tested Applications:</b>    | Dot Blot                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Suggested Applications:</b> | ELISA (Based on references)                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Application Note:</b>       | Anti-Protein G Peroxidase Conjugated Antibody has been tested by dot blot and is suitable to be assayed against 1.0 ug of Protein G [Streptococcus species] in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenzthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:20,000 to 1:100,000 of the reconstitution concentration is suggested for this product. |
| <b>Assay Dilutions:</b>        | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                                                                                                                                               |
| <b>ELISA:</b>                  | 1:20,000 - 1:100,000                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Formulation

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|-------------------------------|------------------------------------------------------------------------|
| <b>Physical State:</b>        | Lyophilized                                                            |
| <b>Concentration:</b>         | 10.0 mg/mL by UV absorbance at 280 nm                                  |
| <b>Buffer:</b>                | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2             |
| <b>Preservative:</b>          | 0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!               |
| <b>Stabilizer:</b>            | 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free |
| <b>Reconstitution Volume:</b> | 2.0 mL                                                                 |
| <b>Reconstitution Buffer:</b> | Restore with deionized water (or equivalent)                           |

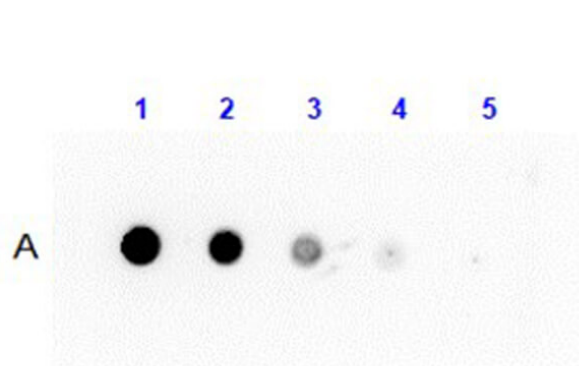
## Shipping & Handling

|                            |         |
|----------------------------|---------|
| <b>Shipping Condition:</b> | Ambient |
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**Storage Condition:** 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. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

**Expiration:** Expiration date is one (1) year from date of receipt.

## Images



### Dot Blot

Dot Blot Results of Anti-Protein G Antibody Peroxidase Conjugated. Lane A: Protein G at 100ng, 33.33ng, 11.11ng, 3.70ng, 1.23ng. Primary Antibody: Anti-Protein G HRP Conjugated at 1µg/mL for 1hr at RT. Secondary Antibody: none. Block: BlockOut Buffer (p/n MB-073) for 30mins. Exposure: 6secs.

## References

- Goto S, Konnai S, Hirano Y, et al. Upregulation of PD-L1 Expression by Prostaglandin E2 and the Enhancement of IFN-γ by Anti-PD-L1 Antibody Combined With a COX-2 Inhibitor in Mycoplasma bovis Infection. *Front Vet Sci.* (2020)

## Disclaimer

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