

**Datasheet for 601-4304****Bovine IgG F(ab')<sub>2</sub> Antibody Peroxidase Conjugated****Overview**

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|----------------------|--------------------------------------------------------------------------------------|
| <b>Description:</b>  | Rabbit Anti-Bovine IgG F(ab') <sub>2</sub> Antibody Peroxidase Conjugated - 601-4304 |
| <b>Item No.:</b>     | 601-4304                                                                             |
| <b>Size:</b>         | 2 mg                                                                                 |
| <b>Applications:</b> | ELISA                                                                                |
| <b>Reactivity:</b>   | Bovine                                                                               |
| <b>Host Species:</b> | Rabbit                                                                               |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Background:</b>   | Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75% of serum immunoglobulins. Immunoglobulin G binds to viruses, bacteria, as well as fungi and facilitates their destruction or neutralization via agglutination (and thereby immobilizing them), activation of the complement cascade, and opsonization for phagocytosis. This product possesses the F(ab') <sub>2</sub> fragment, recognized by the two F(ab) fragments yielded from the digestion of the antibody below the disulfide bond hinge region. |
| <b>Synonyms:</b>     | rabbit anti-Bovine IgG F(ab') <sub>2</sub> Peroxidase Conjugated Antibody, rabbit anti-Bovine IgG Fab2 HRP Conjugated Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Specificity:</b>  | IgG F(ab') <sub>2</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Conjugate:</b>    | Peroxidase (HRP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

**Target Details**

|                    |                                         |
|--------------------|-----------------------------------------|
| <b>Reactivity:</b> | Bovine                                  |
| <b>Immunogen:</b>  | Bovine IgG F(ab') <sub>2</sub> fragment |

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| <b>Purity/Specificity:</b> | This product was prepared from monospecific antiserum by immunoaffinity chromatography using Bovine IgG coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Rabbit Serum, Bovine IgG, Bovine IgG F(ab') <sub>2</sub> and Bovine Serum. No reaction was observed against Bovine IgG F(c). |
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## Application Details

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| <b>Tested Applications:</b> | ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Application Note:</b>    | Anti-Bovine IgG F(ab') <sub>2</sub> Peroxidase Conjugated Antibody has been tested by ELISA. This product has been assayed against 1.0 ug of Bovine IgG in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:1,000 to 1:5,000 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>               | 1:40,000 - 1:80,000                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>IHC:</b>                 | 1:500 - 1:2,500                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>WB:</b>                  | 1:1,000 - 1:10,000                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Formulation

|                               |                                                          |
|-------------------------------|----------------------------------------------------------|
| <b>Physical State:</b>        | Lyophilized                                              |
| <b>Concentration:</b>         | 2.0 mg/mL by UV absorbance at 280 nm                     |
| <b>Buffer:</b>                | 0.01 M Sodium 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 Polyethylene Glycol (PEG-8000)                  |
| <b>Reconstitution Volume:</b> | 1.0 mL                                                   |
| <b>Reconstitution Buffer:</b> | Restore with deionized water (or equivalent)             |

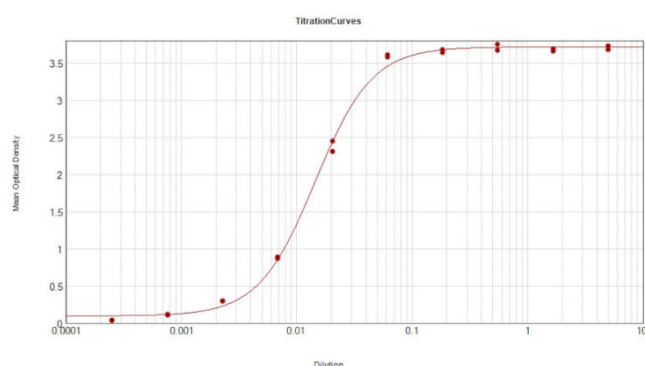
## Shipping & Handling

|                            |         |
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| <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



## ELISA

ELISA Results of Purified Rabbit Anti-Bovine IgG F(ab')<sub>2</sub> Antibody Peroxidase Conjugated tested against purified Bovine IgG F(ab')<sub>2</sub> HRP. Each well was coated in duplicate with 1.0 µg of Bovine IgG F(ab')<sub>2</sub> (p/n 001-0104). The working dilution is 1:69,000. The starting dilution of antibody was 5µg/ml and the X-axis represents the Log<sub>10</sub> of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC<sub>50</sub> is defined as the titer of the antibody. Assay performed using HRP Conjugate stabilizer (p/n MB-076) and TMB substrate (p/n TMBE-1000).

## 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.