

**Datasheet for 605-4304****Goat IgG F(ab')<sub>2</sub> Antibody Peroxidase Conjugated****Overview**

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|----------------------|------------------------------------------------------------------------------------|
| <b>Description:</b>  | Rabbit Anti-Goat IgG F(ab') <sub>2</sub> Antibody Peroxidase Conjugated - 605-4304 |
| <b>Item No.:</b>     | 605-4304                                                                           |
| <b>Size:</b>         | 2 mg                                                                               |
| <b>Applications:</b> | ELISA                                                                              |
| <b>Reactivity:</b>   | Goat                                                                               |
| <b>Host Species:</b> | Rabbit                                                                             |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Background:</b>   | Anti-Goat IgG F(ab') <sub>2</sub> Peroxidase Antibody generated in rabbit is a proteolytic fragment of immunoglobulin G (IgG) obtained by limited digestion with the enzyme pepsin under controlled conditions of temperature, time and pH. F(ab') <sub>2</sub> molecules lack the Fc portion of IgG and therefore receptors that bind goat IgG F(c) will not bind goat IgG F(ab') <sub>2</sub> molecules. |
| <b>Synonyms:</b>     | rabbit anti-goat IgG F(ab') <sub>2</sub> HRP conjugated, rabbit anti-goat IgG F(ab') <sub>2</sub> peroxidase conjugated, rabbit anti-goat IgG Fab2 HRP conjugated, rabbit anti-goat IgG Fab2 peroxidase conjugated                                                                                                                                                                                         |
| <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**

|                            |                                                                                                                                                                                                                                                                                                                                                       |
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| <b>Reactivity:</b>         | Goat                                                                                                                                                                                                                                                                                                                                                  |
| <b>Immunogen:</b>          | Goat IgG F(ab') <sub>2</sub> fragment                                                                                                                                                                                                                                                                                                                 |
| <b>Purity/Specificity:</b> | This product was prepared from monospecific antiserum by immunoaffinity chromatography using Goat IgG coupled to agarose beads. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Rabbit Serum, Goat IgG, Goat IgG F(ab') <sub>2</sub> and Goat Serum. No reaction was observed against Goat IgG F(c). |

## Application Details

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| <b>Tested Applications:</b> | ELISA                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Application Note:</b>    | Anti-Goat IgG F(ab') <sub>2</sub> Peroxidase Antibody has been tested by ELISA and is assayed against 1.0 µg of Goat 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 1:7,000 to 1:35,000 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>               | 1:10,000 - 1:50,000                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>IHC:</b>                 | 1:500 - 1:2,500                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>WB:</b>                  | 1:1,000 - 1:10,000                                                                                                                                                                                                                                                                                                                                                                                      |

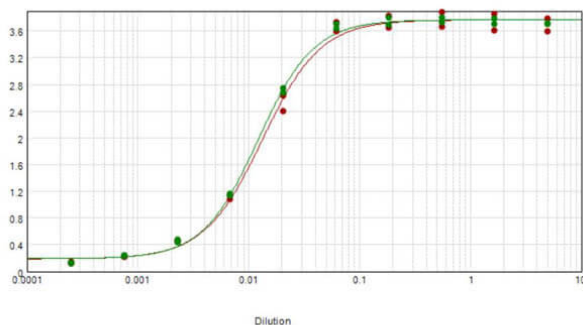
## Formulation

|                               |                                                                        |
|-------------------------------|------------------------------------------------------------------------|
| <b>Physical State:</b>        | Lyophilized                                                            |
| <b>Concentration:</b>         | 2.0 mg/mL by UV absorbance at 280 nm                                   |
| <b>Buffer:</b>                | 0.02 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> | 1.0 mL                                                                 |
| <b>Reconstitution Buffer:</b> | Restore with deionized water (or equivalent)                           |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Shipping Condition:</b> | Ambient                                                                                                                                                                                                                                                                                                                                         |
| <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. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                                                                                                                           |

## Images



## ELISA

ELISA results of purified Rabbit Anti-Goat IgG F(ab')<sub>2</sub> Antibody tested against purified Goat IgG F(ab')<sub>2</sub> (green line). Each well was coated in duplicate with 1.0 µg of Goat IgG F(ab')<sub>2</sub>. 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 TMB-1000 substrate.

## 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.