

## Datasheet for 603-100-002

**Chicken IgG (H&L) Antibody Rhodamine Conjugated****Overview**

|                      |                                                                         |
|----------------------|-------------------------------------------------------------------------|
| <b>Description:</b>  | Goat Anti-Chicken IgG (H&L) Antibody Rhodamine Conjugated - 603-100-002 |
| <b>Item No.:</b>     | 603-100-002                                                             |
| <b>Size:</b>         | 2 mg                                                                    |
| <b>Applications:</b> | Dot Blot                                                                |
| <b>Reactivity:</b>   | Chicken                                                                 |
| <b>Host Species:</b> | Goat                                                                    |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Background:</b>   | Anti-Chicken IgG Rhodamine Antibody generated in goat detects chicken IgY. 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. The whole IgG molecule possesses both the F(c) region, recognized by high-affinity Fc receptor proteins, as well as the F(ab) region possessing the epitope-recognition site. Both heavy and light chains of the antibody molecule are present. |
| <b>Synonyms:</b>     | goat anti-Chicken IgG Rhodamine Conjugated Antibody, goat anti-Chicken IgG Antibody TRITC Conjugation, Chicken Secondary Antibody, goat anti-Chicken IgY Rhodamine Conjugated Antibody, goat anti-Chicken IgY Antibody TRITC Conjugation                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Host Species:</b> | Goat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Specificity:</b>  | IgG (H&L)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Conjugate:</b>    | Rhodamine (TRITC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>F/P Ratio:</b>    | 3.11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**Target Details**

|                    |         |
|--------------------|---------|
| <b>Reactivity:</b> | Chicken |
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|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Immunogen:</b>          | Chicken IgG whole molecule                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Purity/Specificity:</b> | This product was prepared from monospecific antiserum by immunoaffinity chromatography using Chicken IgG coupled to agarose beads followed by conjugation to fluorochrome and extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, Chicken IgG and Chicken Serum. This antibody will react with heavy chains of Chicken IgY and with light chains of most Chicken immunoglobulins. |

## Application Details

|                             |                                                                                                                                                                                                                                                                                                                                    |
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| <b>Tested Applications:</b> | Dot Blot                                                                                                                                                                                                                                                                                                                           |
| <b>Application Note:</b>    | Anti-Chicken IgG Rhodamine Antibody has been tested by dot blot. This product is designed for immunofluorescence microscopy, fluorescence based plate assays (FLISA) and fluorescent western blotting. This product is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                                    |
| <b>FC:</b>                  | 1:500 - 1:2,500                                                                                                                                                                                                                                                                                                                    |
| <b>FLISA:</b>               | 1:10,000 - 1:50,000                                                                                                                                                                                                                                                                                                                |
| <b>IF:</b>                  | 1:1,000 - 1:5,000                                                                                                                                                                                                                                                                                                                  |

## 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) 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)                           |

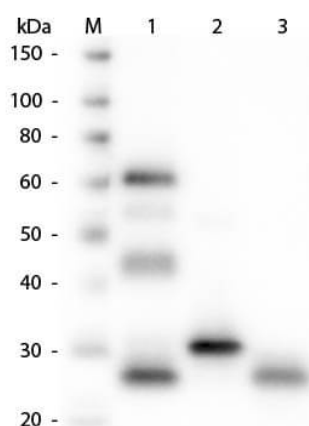
## Shipping & Handling

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| <b>Shipping Condition:</b> | Ambient |
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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



### Western Blot

Western Blot of Unconjugated Anti-Chicken IgG/IgY (H&L) (GOAT) Antibody (p/n 603-101-002). Lane M: 3 µl Molecular Ladder. Lane 1: Chicken IgG whole molecule (p/n 003-0102). Lane 2: Chicken IgG F(c) Fragment (p/n 003-0103). Lane 3: Chicken IgG Fab Fragment (p/n 003-0105). All samples were reduced. Load: 50 ng per lane. Block: MB-070 for 30 min at RT. Primary Antibody: Anti-Chicken IgG/IgY (H&L) (GOAT) Antibody (p/n 603-101-002) 1:1,000 for 60 min at RT. Secondary antibody: Anti-Goat IgG (DONKEY) Peroxidase Conjugated Antibody (p/n CUST10) 1:40,000 in MB-070 for 30 min at RT. Predicted/Observed Size: 25 and 72 kDa for Chicken IgY, 25 kDa for F(c) and Fab. Chicken F(c) migrates slightly higher.

## 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.