

## Datasheet for 608-4102

**Horse IgG (H&L) Antibody****Overview**

|                      |                                                 |
|----------------------|-------------------------------------------------|
| <b>Description:</b>  | Rabbit Anti-Horse IgG (H&L) Antibody - 608-4102 |
| <b>Item No.:</b>     | 608-4102                                        |
| <b>Size:</b>         | 2 mg                                            |
| <b>Applications:</b> | ELISA                                           |
| <b>Reactivity:</b>   | Horse                                           |
| <b>Host Species:</b> | Rabbit                                          |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Background:</b>   | Anti-Horse IgG Antibody generated in rabbit detects horse IgG. 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 compliment 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. Secondary Antibodies are available in a variety of formats and conjugate types. When choosing a secondary antibody product, consideration must be given to species and immunoglobulin specificity, conjugate type, fragment and chain specificity, level of cross-reactivity, and host-species source and fragment composition. |
| <b>Synonyms:</b>     | Rabbit Anti-Horse IgG Antibody, Rabbit Anti Horse IgG Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Specificity:</b>  | IgG (H&L)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

**Target Details**

|                    |                          |
|--------------------|--------------------------|
| <b>Reactivity:</b> | Horse                    |
| <b>Immunogen:</b>  | Horse IgG whole molecule |

|                            |                                                                                                                                                                                                                                                                                                                                     |
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| <b>Purity/Specificity:</b> | This product was prepared from monospecific antiserum by immunoaffinity chromatography using Horse 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-Rabbit Serum, Horse IgG and Horse Serum. |
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## Application Details

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|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b> | ELISA                                                                                                                                                                 |
| <b>Application Note:</b>    | Anti-Horse IgG antibody has been tested by ELISA and is suitable for western blot and immunohistochemistry, as well as other assays requiring lot-to-lot consistency. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                       |
| <b>ELISA:</b>               | 1:150,000 - 1:300,000                                                                                                                                                 |
| <b>IHC:</b>                 | 1:1,000 - 1:5,000                                                                                                                                                     |
| <b>WB:</b>                  | 1:2,000 - 1:10,000                                                                                                                                                    |

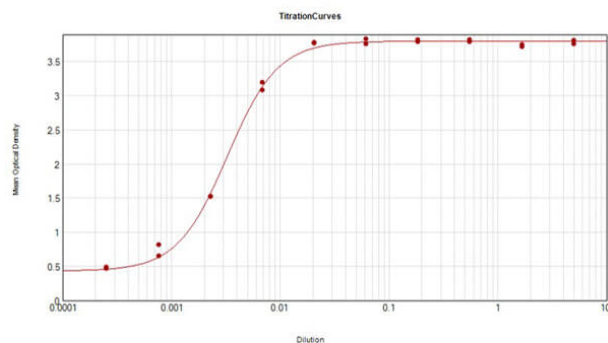
## Formulation

|                        |                                                         |
|------------------------|---------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                               |
| <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>   | 0.1% (w/v) Sodium Azide                                 |
| <b>Stabilizer:</b>     | None                                                    |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Wet Ice                                                                                                                                                                                                                                                      |
| <b>Storage Condition:</b>  | Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                                        |

## Images



## ELISA

ELISA Results of Rabbit Anti-Horse IgG Antibody tested against purified Horse IgG. Each well was coated in duplicate with 1.0 µg of Horse IgG (p/n 008-0102). The working dilution of is 1:305,000. The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using HRP Conjugation Stabilizer (p/n MB-076), Goat Anti-Rabbit IgG HRP conjugated (p/n 611-103-122), 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.