

Datasheet for 612-4102

Rat IgG (H&L) Antibody

Overview

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| Description: | Rabbit Anti-Rat IgG (H&L) Antibody - 612-4102 |
| Item No.: | 612-4102 |
| Size: | 2 mg |
| Applications: | Dot Blot, ELISA, WB, IP |
| Reactivity: | Rat |
| Host Species: | Rabbit |

Product Details

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| Background: | Anti-Rat IgG (H&L) generated in rabbit detects rat Immunoglobulin G. Both the Heavy and Light chains of the antibody molecule are present. Representing approximately 75% of serum immunoglobulins, IgG is the most abundant antibody isotype found in the circulation. IgG molecules are synthesized and secreted by plasma B cells. 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. |
| Synonyms: | rabbit anti-Rat IgG (H&L) Antibody, Rabbit-a-Rat IgG (H&L), Rat IgG Antibody in rabbit, rabbit anti Rat IgG Secondary Antibody |
| Host Species: | Rabbit |
| Specificity: | IgG (H&L) |
| Clonality: | Polyclonal |
| Format: | IgG |

Target Details

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| Reactivity: | Rat |
| Immunogen: | Rat IgG whole molecule |

Purity/Specificity: This product was prepared from monospecific antiserum by immunoaffinity chromatography using Rat IgG coupled to agarose beads. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum, Rat IgG and Rat Serum.

Application Details

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| Tested Applications: | Dot Blot, ELISA, WB |
| Suggested Applications: | IP (Based on references) |
| Application Note: | Anti-Rat IgG antibody has been tested by ELISA, dot blot, and Western blot and is suitable for use in IP based on published references. Specific conditions for reactivity should be optimized by the end user. |
| Assay Dilutions: | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| ELISA: | 1:20,000 - 1:100,000 |
| IHC: | 1:1,000 - 1:5,000 |
| WB: | 1:2,000 - 1:10,000 |

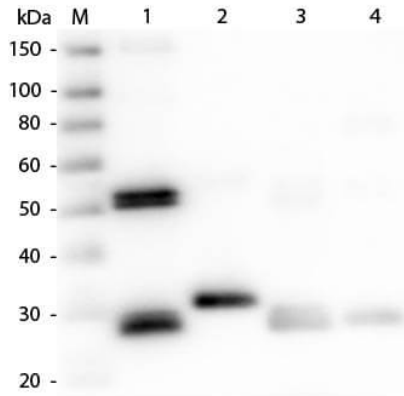
Formulation

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| Physical State: | Liquid (sterile filtered) |
| Concentration: | 2.25 mg/mL by UV absorbance at 280 nm |
| Buffer: | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| Preservative: | 0.01% (w/v) Sodium Azide |
| Stabilizer: | None |

Shipping & Handling

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| Shipping Condition: | Wet Ice |
| Storage Condition: | 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. |
| Expiration: | Expiration date is one (1) year from date of receipt. |

Images

**Western Blot**

Western Blot of Anti-Rat IgG (H&L) (RABBIT) Antibody (p/n 612-4102). Lane M: 3 μ l Molecular Ladder. Lane 1: Rat IgG whole molecule (p/n 012-0102). Lane 2: Rat IgG F(c) Fragment (p/n 012-0103). Lane 3: Rat IgG Fab Fragment (p/n 012-0105). Lane 4: Rat IgM Whole Molecule (p/n 012-0107). All samples were reduced. Load: 50 ng per lane. Block: MB-070 for 30 min at RT. Primary Antibody: Anti-Rat IgG (H&L) (RABBIT) Antibody (p/n 612-4102) 1:1,000 for 60 min at RT. Secondary Antibody: Anti-Rabbit IgG (GOAT) Peroxidase Conjugated Antibody (p/n 611-103-122) 1:40,000 in MB-070 for 30 min at RT. Predicted/Observed Size: 25 and 55 kDa for Rat IgG, 25 kDa for F(c) and Fab, 78 and 25 kDa for IgM. Rat F(c) migrates slightly higher.

References

- Schirmbeck R et al. Priming protective CD8 T cell immunity by DNA vaccines encoding chimeric, stress protein-capturing tumor-associated antigen. *J Immunol.* (2006)
- Castrol AG et al. Molecular and functional characterization of mouse signaling lymphocytic activation molecule (SLAM): differential expression and responsiveness in Th1 and Th2 cells. *J Immunol.* (1999)

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.