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www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 611-111-122

# Rabbit IgG (H&L) Antibody CY2 Conjugated Pre-Adsorbed

## Overview

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| **Description:** | Goat Anti-Rabbit IgG (H&L) Antibody CY2 Conjugated (Min X Bv Ch Gt GP Ham Hs Hu Ms Rt & Sh Serum Proteins) - 611-111-122 |
| **Item No.:** | 611-111-122 |
| **Size:** | 1 mg |
| **Applications:** | Dot Blot, WB, IF, Multiplex |
| **Reactivity:** | Rabbit |
| **Host Species:** | Goat |

## Product Details

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| **Background:** | Anti-Rabbit IgG (H&L) Antibody CY2 Conjugated generated in goat detects reactivity to Rabbit 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 the 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. |
| **Synonyms:** | Goat Anti Rabbit IgG Antibody CY2 Conjugation, Goat Anti-Rabbit IgG CY2 Conjugated Antibody |
| **Host Species:** | Goat |
| **Specificity:** | IgG (H&L) |
| **Conjugate:** | Cy2™ |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |
| **F/P Ratio:** | 4.5 |

## Target Details

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| **Reactivity:** | Rabbit |
| **Immunogen:** | Rabbit IgG whole molecule |
| **Purity/Specificity:** | Cy2 Secondary Antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Rabbit IgG coupled to agarose beads followed by solid phase adsorption (s) to remove any unwanted reactivities and extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, Rabbit IgG and Rabbit Serum. No reaction was observed against Bovine, Chicken, Goat, Guinea Pig, Hamster, Horse, Human, Mouse, Rat and Sheep Serum Proteins. |

## Application Details

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| **Tested Applications:** | Dot Blot, WB |
| **Suggested Applications:** | IF, Multiplex (Based on references) |
| **Application Note:** | Anti-Rabbit IgG (H&L) Conjugated Cy2 Secondary Antibody has been tested by dot blot and western bot. This antibody 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. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **ELISA:** | 1:10,000 - 1:50,000 |
| **FC:** | 1:500 - 1:2,500 |
| **FLISA:** | 1:10,000 - 1:50,000 |
| **IF:** | 1:1,000 - 1:5,000 |
| **WB:** | User Optimized |

## Formulation

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| **Physical State:** | Lyophilized |
| **Concentration:** | 1.0 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:** | 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free |

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| **Reconstitution Volume:** | 1.0 mL |
| **Reconstitution Buffer:** | Restore with deionized water (or equivalent) |

## Shipping & Handling

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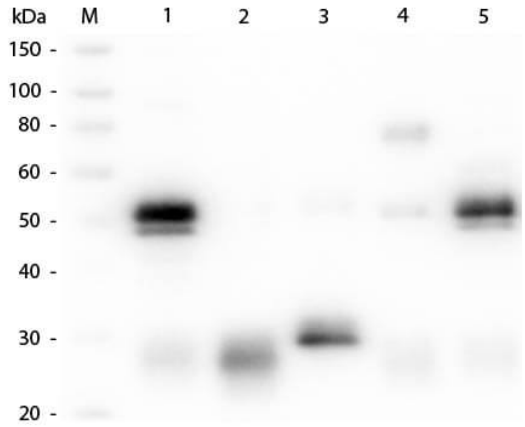
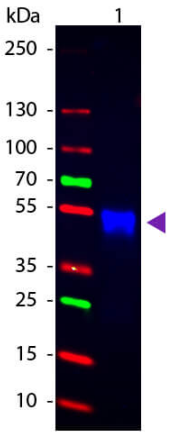
| **Shipping Condition:** | Ambient |
| **Storage Condition:** | Store Cy2 Conjugated Secondary Antibody at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Cy2 secondary antibody 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-Rabbit IgG (H&L) (GOAT) Antibody (Min X Bv, Ch, Gt, GP, Ham, Hs, Hu, Ms, Rt & Sh Serum Proteins) (p/n 611-101-122). Lane M: 3 µl Molecular Ladder. Lane 1: Rabbit IgG whole molecule (p/n 011-0102). Lane 2: Rabbit IgG F(ab) Fragment (p/n 011-0105). Lane 3: Rabbit IgG F(c) Fragment (p/n 010-0103). Lane 4: Rabbit IgM Whole Molecule (p/n 011-0107). Lane 5: Normal Rabbit Serum (p/n B309). All samples were reduced. Load: 50 ng per lane. Block: MB-070 for 30 min at RT. Primary Antibody: Anti-Rabbit IgG (H&L) (GOAT) Antibody (Min X Bv, Ch, Gt, GP, Ham, Hs, Hu, Ms, Rt & Sh Serum Proteins) (p/n 611-101-122) 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 50 kDa for Rabbit IgG and Serum, 25 kDa for F(c) and F(ab), 70 and 23 kDa for IgM. Rabbit F(c) migrates slightly higher.




**Western Blot**

Western blot of CY2 Conjugated Goat Anti-Rabbit IgG Pre-Adsorbed secondary antibody. Lane 1: Rabbit IgG. Lane 2: None. Load: 50 ng per lane. Primary antibody: None. Secondary antibody: CY2 goat secondary antibody at 1:1,000 for 60 min at RT. Blocking: MB-070 for 30 min at RT. Predicted/Observed size: 25 & 55 kDa, 25 & 55 kDa for Rabbit IgG. Other band(s): None.

## References


- Renko et al. SDF1 gradient associates with the distribution of c-Kit+ cardiac cells in the heart. *Scientific Reports* (2018)
- Pyo RT, Sui J, Dhume A, et al. CXCR4 modulates contractility in adult cardiac myocytes. *J Mol Cell Cardiol.* (2006)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