

**Datasheet for 012-026-040****RAT IgG1 isotype control Allophycocyanin****Overview**

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| <b>Description:</b> | Rat IgG1 Isotype Control Allophycocyanin Conjugated - 012-026-040 |
| <b>Item No.:</b>    | 012-026-040                                                       |
| <b>Size:</b>        | 500 µg                                                            |
| <b>Origin:</b>      | Rat                                                               |

**Product Details**

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>Background:</b>        | RAT IgG1 isotype control is used in flow cytometry, western blot and ELISA and differentiate between immunoglobulin classes and subclasses. Isotype controls allow for the genetic variations or differences in the constant regions of the heavy and light chains. In Rat there are six relevant heavy chain isotypes and two light chain isotypes: heavy chain alpha - IgA, gamma - IgG 1, 2a, 2b, 2c and µ - IgM, light chain kappa and lambda. |
| <b>Synonyms:</b>          | Rat Isotype Control, Rat IgG1 APC isotype, RAT IgG1 subclass isotype control                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species of Origin:</b> | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Conjugate:</b>         | Allophycocyanine (APC)                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Clone ID:</b>          | RG1                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Format:</b>            | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Type:</b>              | Native Protein                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>F/P Ratio:</b>         | 1-2                                                                                                                                                                                                                                                                                                                                                                                                                                                |

**Target Details**

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| <b>Purity/Specificity:</b> | RAT IgG1 isotype control has been prepared from concentrated cell culture supernatant by immunoaffinity chromatography using protein G. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rat IgG and anti-Rat serum. Isotyping assay resulted non-reactive with antisera to Rat IgG2a, IgG2b, IgG3, IgM, and IgA. Allophycocyanin Conjugated Rat IgG1 confirmed by Dot Blot. |
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**Application Details**

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| <b>Application Note:</b> | RAT IgG1 isotype control can be utilized as a control or standard reagent in Western Blotting, Flow Cytometry, and ELISA experiments where determination of sample isotype is important. Specific conditions should be optimized by user. |
| <b>Assay Dilutions:</b>  | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                           |
| <b>ELISA:</b>            | 1:2000 - 1:20,000                                                                                                                                                                                                                         |
| <b>FC:</b>               | 1:1000-1:5000                                                                                                                                                                                                                             |
| <b>FLISA:</b>            | User Optimized                                                                                                                                                                                                                            |
| <b>IF:</b>               | User Optimized                                                                                                                                                                                                                            |

## Formulation

|                               |                                                                        |
|-------------------------------|------------------------------------------------------------------------|
| <b>Physical State:</b>        | Lyophilized                                                            |
| <b>Concentration:</b>         | 0.5 mg/mL by UV absorbance = 82.0 at 565 nm                            |
| <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                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage Condition:</b>  | Store vial at 4° C prior to restoration. Restore with deionized water (or equivalent). This product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. Centrifuge product if not completely clear after standing at room temperature. Do not freeze after reconstitution. Store reagent in the dark. Use subdued lighting during handling and incubation of cells prior to analysis. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                                                                                                                                                                                           |

## Disclaimer

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