

**Datasheet for 009-008-002****Human IgG PE****Overview**

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| <b>Description:</b> | Human IgG Whole Molecule Phycoerythrin Conjugated - 009-008-002 |
| <b>Item No.:</b>    | 009-008-002                                                     |
| <b>Size:</b>        | 0.5 mL                                                          |
| <b>Origin:</b>      | Human                                                           |

**Product Details**

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Background:</b>        | 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. This Human IgG whole molecule is conjugated to Phycoerythrin. |
| <b>Synonyms:</b>          | Human IgG Phycoerythrin conjugated, Human IgG PE conjugated, isotype control for flow cytometry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species of Origin:</b> | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Conjugate:</b>         | R-Phycoerythrin (RPE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Format:</b>            | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Type:</b>              | Native Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>F/P Ratio:</b>         | 1-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

**Target Details**

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| <b>Purity/Specificity:</b> | Human IgG whole molecule Phycoerythrin conjugated was prepared from normal serum delipidation, salt fractionation, ion exchange chromatography followed by extensive dialysis against the buffer stated above. Human IgG whole molecule Phycoerythrin conjugated was assayed by immunoelectrophoresis resulted in a single precipitin arc against anti-Phycoerythrin, anti-Human IgG and anti-Human Serum. |
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## Application Details

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| <b>Application Note:</b> | Human IgG whole molecule Phycoerythrin conjugated can be utilized as a control reagent in Flow Cytometry, Immunohistochemistry, and Western Blotting. Researchers should determine optimal titers for applications that are not stated. |
| <b>Assay Dilutions:</b>  | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                         |
| <b>FC:</b>               | 1:500-1:2500                                                                                                                                                                                                                            |
| <b>IHC:</b>              | 1:500-1:2500                                                                                                                                                                                                                            |
| <b>WB:</b>               | 1:1,000-1:5,000                                                                                                                                                                                                                         |

## Formulation

|                               |                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Physical State:</b>        | Lyophilized                                                                                                             |
| <b>Concentration:</b>         | 0.5 mg/mL by UV absorbance = 82.0 at 565 nm                                                                             |
| <b>Buffer:</b>                | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 with 0.01M Magnesium Chloride and 0.01M Beta-Mercaptoethanol |
| <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> | 500 µL                                                                                                                  |
| <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

No test method can provide total assurance that the hepatitis B virus, hepatitis C virus, human immunodeficiency virus, or any other infectious agents are absent. Thus, all blood products, including purified proteins derived from human blood sources, should be handled at Biosafety Level 2 as recommended by the CDC\NIH manual entitled Biosafety in Microbiological and Biomedical Laboratories for potentially infectious human serum, blood specimens or proteins derived from same. Source material for the human blood product supplied to your facility has been tested for the detection of HIV antibody, Hepatitis B surface antigen, antibody to Hepatitis C, HIV 1 antigen(s), antibody to HTLV - I/II, and syphilis by FDA guidelines. All units were found to be non-reactive/negative for these tests. All human blood source material is collected in FDA licensed centers and is tested with FDA approved test kits.

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