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Datasheet for 009-008-002

Human IgG PE

Overview

Description:	Human IgG Whole Molecule Phycoerythrin Conjugated - 009-008-002
Item No.:	009-008-002
Size:	0.5 mL
Origin:	Human

Product Details

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

Target Details

Purity/Specificity:	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.

Application Details

Application Note:	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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	1:500-1:2500
IHC:	1:500-1:2500
WB:	1:1,000-1:5,000

Formulation

Physical State:	Lyophilized
Concentration:	0.5 mg/mL by absorbance = 82.0 at 565 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 with 0.01M Magnesium Chloride and 0.01M Beta-Mercaptoethanol
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	500 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	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.
Expiration:	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.

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.