## PERFORMANCE DATA SHEET

1750

## Monoclonal anti-human IgG\*



mAb name/Clone: ICO-97 Isotype: Mouse IgG1 Immunogen: Human Ig

CATALOG#: 139-820 (Preservative-free)

QUANTITY: 100 μg CONCENTRATION: 1.0 mg/ml

**INFORMATION:** Human immunoglobulins are glycoproteins composed of two disulfide-bonded heavy (H) chain subunits, each of which is linked by interchain disulfide bonds to a light (L) chain forming a tetramolecular complex. There are five classes of immunoglobulins, designated IgG, IgA, IgM, IgD and IgE, which are defined by differences in the constant region of H chains. L chains are divided into kappa or lambda classifications based on structural antigenic differences. All classes of immunoglobulins have been found on the cell surface of B lymphocytes where they function as antigen receptors to elicit antigen-dependent proliferation and secretion of antigen specific soluble circulating antibodies. Antibody ICO-97 recognizes cell surface human IgG on B cells.

References: 1. Basic and Clinical Immunology, Seventh edition (D. P. Sites & A. I. Terr, eds.) Appleton & Lange., Norwalk, CT (1991).

STORAGE CONDITIONS: Store at  $2 - 5^{\circ}C$ . Freeze/Thawing is not recommended. Open under aseptic conditions.

**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_\_

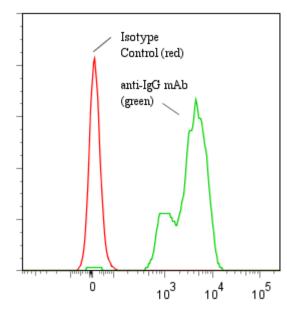
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl.

**PRODUCTION:** Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity

was >95% Immunoglobulin by SDS-PAGE with less than 1% Bovine Immunoglobulin. Product was 0.2  $\mu m$  filtered and vialed under aseptic conditions.

**PERFORMANCE:** Five x  $10^5$  human IgG-coated microparticles (*Inquire*) per tube were incubated 45 minutes on ice with 80  $\mu$ l of anti-human IgG antibody at **10**  $\mu$ g/ml. Cells were washed twice and incubated with  $2^0$  reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. Particles stained positive with a mean shift of **2.55**  $\log_{10}$  fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010).

## Binding of anti-hu IgG mAb +GAM/FITC to huIgG-coated microparticles



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<sup>\*</sup> Research Use Only. Not for use in Diagnostic procedures.