## PERFORMANCE DATA SHEET 1849 Monoclonal anti-human IgG/Biotin\*

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

## CATALOG#: 139-030 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 human IgG in EIA and cell surface human IgG on B cells in FACS.

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<sup>o</sup>C. Freeze/Thawing is not recommended.

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

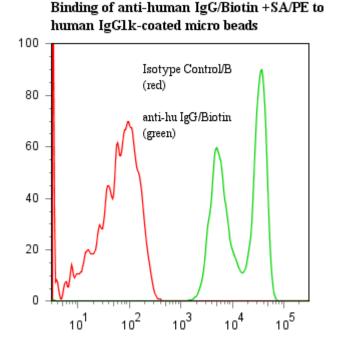
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

PRODUCTION: Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95%

mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

**PERFORMANCE:** Five x  $10^5$  human IgG1k-coated microparticles (*Inquire*) were incubated 45 minutes on ice with 80 µl of anti-human IgG/Biotin at **10 µg/ml**. Tubes were washed twice and incubated with  $2^{\circ}$  reagent Streptavidin R-Phycoerythrin (Catalog #253-050) after which they were washed three times, fixed and analyzed by FACS. Microparticles stained positive with a mean shift of **2.67** log<sub>10</sub> fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-030) at a similar concentration.

\*This Product is intended for Laboratory Research use only.



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