

# 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°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<sup>5</sup> 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<sup>o</sup> 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).

\* *Research Use Only. Not for use in Diagnostic procedures.*

**Binding of anti-human IgG/Biotin + SA/PE to human IgG1k-coated micro beads**

