

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% NaN₃ (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 10⁵ 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^o 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 log₁₀ fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-030) at a similar concentration.

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

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

