

PERFORMANCE DATA SHEET

1719

Monoclonal anti-human IgG/FITC*

mAb name/Clone: ICO-97

Isotype: Mouse IgG1

Immunogen: Human Ig

CATALOG#: 139-040

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2ml

WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per test)

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°C. Freeze/Thawing is not recommended. Protect from light.

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: Protein A purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at 0.5 mg/ml with a Fluorescein/IgG molar ratio of 8.0.

PERFORMANCE: Five x 10⁵ Human IgG1k-coated microparticles (*Inquire*) per tube were washed and incubated 45 minutes on ice with 80 µl of anti-IgG/FITC at a 1:50 dilution (10µg/ml). They were washed three times, fixed and analyzed by FACS. Gate was set on intact, non aggregated beads. These stained positive with a mean shift of 3.3 log₁₀ fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog # 278-040). Binding was blocked when beads were pre incubated with an excess of unlabeled anti-IgG antibody (Catalog #139-020).

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

Binding of anti-human IgG/FITC to huIgGk coated CML beads

