PERFORMANCE DATA SHEET

2610

Ancell

Monoclonal anti-human Lambda Light Chain/FITC*

mAb name/Clone: ICO106 Isotype: Mouse IgG1 Immunogen: Human Ig

CATALOG#: 138-040
QUANTITY: 120 tests

VOLUME IN VIAL: 0.2ml
WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 10⁵-cell 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 ICO106 recognizes cell surface lambda chain 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^oC*. 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:_____

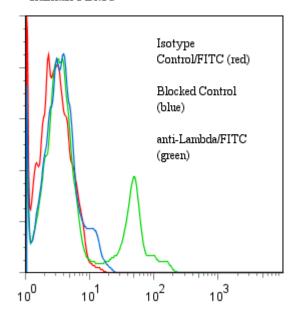
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

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 7.9.

PERFORMANCE: Five x 10^5 ficoll prepared **human peripheral blood mononuclear cells** were pre incubated 5 minutes with 20 µl of 250 µg/ml human IgG after which they were incubated 45 minutes on ice with 80 µl of anti-Lambda/FITC at a **1:50** dilution (10 µg/ml). They were then washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.23** \log_{10} fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog # 278-040). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-lambda antibody (Catalog #138-020).

Binding of anti-Lambda/FITC to human PBMC



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^{*} Research Use Only. Not for use in Diagnostic procedures.