## PERFORMANCE DATA SHEET

3109

## Monoclonal anti-human Lambda/R-PE\*



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

CATALOG#: 138-050

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6μl of concentrated stock per 5 x 10<sup>5</sup>-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°C. Do not freeze! Protect from light.

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

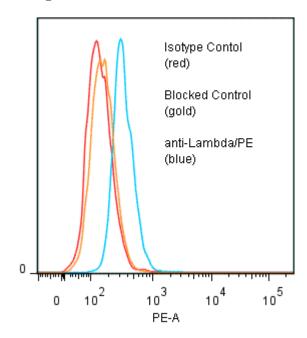
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfoester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at  $500 \,\mu\text{g/ml}$  with an  $A_{565}/A_{280}$  ratio of 2.78.

**PERFORMANCE:** Human IgG1 Lambda-coated microparticles (*Inquire*) were incubated 45 minutes on ice with 80  $\mu$ l of product at a dilution factor of **1:50** (**10**  $\mu$ g/ml). They were washed three times, fixed and analyzed by FACS. Microparticles stained positive with a mean shift of **0.4**  $\log_{10}$  fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog #278-050). Binding was blocked when cells were pre incubated 10 minutes with 20  $\mu$ l of 0.5 mg/ml anti-human Lambda antibody (Catalog #138-020).

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

## Binding of anti-lambda/PE to human IgG1 lambda-coated CML beads



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