

## PERFORMANCE DATA SHEET

2610

# Monoclonal anti-human Kappa Light chain/FITC\*

**mAb name/Clone:** L1C1

**Isotype:** Mouse IgG1 $\kappa$

**Immunogen:** Human B lymphoma cells

**CATALOG#:** 136-040

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2ml

**WORKING DILUTION:** 1:50 (or use 1.6 $\mu$ l 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 L1C1 recognizes cell surface kappa 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% NaN<sub>3</sub> (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.

**PERFORMANCE:** Five x 10<sup>5</sup> ficoll prepared human peripheral white blood cells were incubated 45 minutes on ice with 80  $\mu$ l of anti-Kappa/FITC at a 1:50 dilution (10  $\mu$ g/ml). They were then washed three times, fixed and analyzed by FACS. A net 13% sub population of the cells stained positive with a mean shift of 1.19 log<sub>10</sub> fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog # 278-040) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20  $\mu$ l of 0.5 mg/ml anti-kappa antibody (Catalog #136-020).

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

Binding of anti-Kappa/FITC to human PBMC

