## PERFORMANCE DATA SHEET 2133 Monoclonal anti-human CD37/R-PE\*



*mAb name/Clone:* **IPO-24** *Isotype:* Mouse IgG2bκ *Immunogen:* Human spleen cells from a patient with hairy cell leukemia

## CATALOG#: 186-050 QUANTITY: 120 tests WORKING DILUTION: 1:50 (or use 1.6μl of concentrated stock per 5 x 10<sup>5</sup>-cell test)

**INFORMATION:** Human CD37 is a member of the tetraspan family of cell surface molecules that apparantly are involved in signal transduction or transporter system complexes. CD37 is strongly expressed on B lymphocytes (sIg-positive) and weakly on T cells, neutrophils and monocytes. Expression of CD37 disappears during B cell development at the plasma cell stage. IPO-24 recognizes the CD37 molecule of about 42-52 kd (4).

*References:* 1) Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 544-545. 2) Leukocyte Typing VI (T. Kishimoto, et al, eds.) Garland Publishing, Inc., New York (1997) p. 149-151.

## STORAGE CONDITIONS: Store at $2 - 5^{\circ}C$ . 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:\_\_\_\_\_

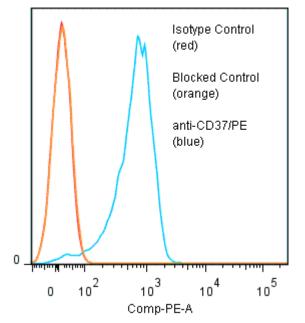
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Antibody was Protein A purified from (low FBS containing) tissue culture supernatant, and conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **1.0 mg/ml** with an A565/A280 ratio of 2.72.

**PERFORMANCE:** Five x  $10^5$  cultured human **Raji** cells per tube were incubated 45 minutes on ice with 80 µl of anti-CD37/R-PE at a **1:50** dilution (20 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **2.15** log<sub>10</sub> fluorescent units when compared to a Mouse IgG2b/R-PE negative control (Catalog #284-050) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of anti-CD37 antibody at 0.5 mg/ml (Catalog #186-020).

\* *Research Use Only. Not for use in Diagnostic procedures.* R-Phycoerythrin (R-PE) is covered under patents: U.S. 4,520,110; European 76,695 and Canadian 1,179,942.

## Binding of anti-CD37/PE to human Raii cells



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