

PERFORMANCE DATA SHEET

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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**VOLUME IN VIAL:** 0.2 ml**WORKING DILUTION:** 1:50 (or use 1.6µl of concentrated stock per 5 x 10⁵-cell test)

INFORMATION: Human CD37 is a member of the tetraspan family of cell surface molecules that apparently 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°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% NaN₃ (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 10⁵ 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 log₁₀ 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 Raji cells