## PERFORMANCE DATA SHEET

2133

## Monoclonal anti-human CD37/FITC\*



*mAb name/Clone:* IPO-24 *Isotype:* Mouse IgG2bк

*Immunogen:* Human spleen cells from a patient with hairy cell leukemia

CATALOG#: 186-040
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 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<sup>o</sup>C*. Freeze/Thawing is not recommended. Protect from light.

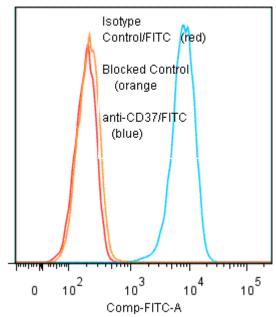
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_

**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** with a Fluorescein/Antibody molar ratio of 12.7.

**PERFORMANCE:** Five x  $10^5$  cultured human **Raji** cells per tube were washed and incubated 45 minutes on ice with 80  $\mu$ l of of anti-CD37/FITC at **a 1:50** dilution (10mg/ml). They were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.61**  $\log_{10}$  fluorescent units when compared to a Mouse IgG2b/FITC negative control (Catalog # 284-040). Binding was blocked when cells were pre incubated 10 minutes with 20  $\mu$ l of 0.5 mg/ml anti-CD37 antibody (Catalog #186-020).

## Binding of anti-CD37/FITC to human Raji cells



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<sup>\*</sup> Research Use Only. Not for use in Diagnostic procedures.