## PERFORMANCE DATA SHEET 3109 Monoclonal anti-human CD45R/FITC\*



*mAb name/Clone:* **351C5** *Isotype:* Mouse IgM *Immunogen:* Periperal blood mononuclear cells

## CATALOG#: 195-040 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 CD45 is expressed on all cells of hematopoietic origin, except erythrocytes. CD45 is a transmembrane tyrosine phosphatase which can exist in at least nine different isoforms resulting from tissue-specific alternative RNA splicing of exons 4-7 of a single gene coding for the various N-terminal peptide segments. CD45 plays an essential role in lymphocyte activation. Antibody 351C5 recognizes the CD45R isoforms of about 200-220 kd.

*References:* L.J. Murray, et al, (1985) Clin Exp Immunol **59:** 315-326. I.S. Trowbridge & M.L. Thomas, (1994) Annu Rev Immunol **12:** 85-116. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 394-397. D. Leitenberg, et al, (1996) J Exp Med **183:** 249-259.

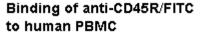
**STORAGE CONDITIONS:** Store at 2 - 5<sup>o</sup>C. Do not Freeze! Protect from light.

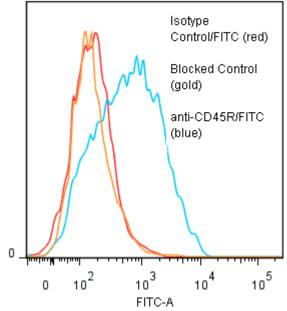
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Antibody from (low FBS containing) tissue culture supernatant was size exclusion purified to 95% Immunoglobulin by SDS-PAGE, and reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at approximately **0.5 mg/ml** with a Fluorescein/IgG molar ratio of 37.8.

**PERFORMANCE:** Five x  $10^5$  ficoll prepared **human peripheral blood mononuclear cells** were washed and pre incubated 5 minutes with 20µl of 250 µg/ml human IgG after which they were incubated 45 minutes on ice with 80 µl of anti-CD45R/FITC at a **1:50** dilution (10µg/ml). Cells were then washed three times, fixed and analyzed by FACS. A net **42%** population of the cells stained positive with a mean shift of **1.05** log<sub>10</sub> fluorescent units when compared to a Mouse IgM/FITC negative control (Catalog #290-040). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD45R antibody (Catalog #195-020).





\*Research use only. Not for use in Diagnostic procedures

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