

**PERFORMANCE DATA SHEET**

2434

**Monoclonal anti-human CD45R\***

**mAb name/Clone:** 351C5

**Isotype:** Mouse IgM

**Immunogen:** Periperal blood mononuclear cells

**CATALOG#:** 195-820 (Preservative Free)

**QUANTITY:** 100 µg

**CONCENTRATION:** 1.0 mg/ml

**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°C. **Open under aseptic conditions. Do not Freeze!**

**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.

**PRODUCTION:** Antibody from (low FBS containing) tissue culture supernatant was purified to 95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin) using size exclusion chromatography. Product was 0.2 µm filtered and vialled under aseptic conditions.

**PERFORMANCE:** Five x 10<sup>5</sup> ficoll prepared human peripheral blood mononuclear cells were washed and pre incubated 5 minutes with 20 µl of 250 µg/ml human IgG (to block non specific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-CD45R at 10 µg/ml. Cells were washed twice and incubated with 2<sup>o</sup> reagent Goat anti-Mouse IgG/FITC (Catalog #232-011; This reagent cross reacts well with Mouse IgM). They were then washed three times, fixed and analyzed by FACS. A net 58% sub population of the cells stained positive with a mean shift of 1.3 log<sub>10</sub> fluorescent units when compared to a Mouse IgM negative control (Catalog # 290-010) at a similar concentration.

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

**Binding of anti-CD45R mAb +GAM/FITC to human PBL**

