## PERFORMANCE DATA SHEET 2434 Monoclonal anti-human CD45R\*



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

### CATALOG#: 195-020 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. 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, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

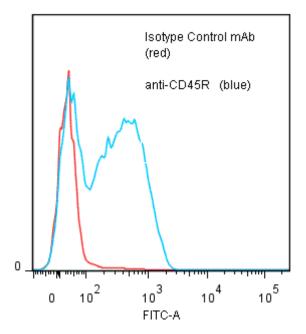
**PRODUCTION:** Antibody from (low FBS containing) tissue culture supernatant was purified to 95% mouse immunoglobulin by SDS-PAGE (<1% bovine

immunoglobulin) using size exclusion chromatography.

**PERFORMANCE:** Five x  $10^5$  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  $2^0$ 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.

\*This Product is intended for Laboratory Research use only.

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



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