

PERFORMANCE DATA SHEET

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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 10⁵ 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^o 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 log₁₀ 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