

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

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 10⁵-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°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% Na₃ (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 10⁵ 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 log₁₀ 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**

Binding of anti-CD45R/FITC to human PBMC

