

PERFORMANCE DATA SHEET

1817

Monoclonal anti-human CD45R/Biotin*

mAb name/Clone: 351C5

Isotype: Mouse IgM

Immunogen: Periperal blood mononuclear cells

CATALOG#: 195-030

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.* Freeze/thawing not recommended.

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, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

PERFORMANCE Briefly, 5×10^5 ficoll prepared **human peripheral blood mononuclear cells** were washed and pre incubated ~10 minutes with 20 µl of 250 µg/ml human IgG (to block nonspecific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-CD45R/Biotin at **5 µg/ml**. Cells were washed twice and incubated with 2^o reagent Streptavidin/R-PE (catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. A net **72%** sub population of the cells stained positive with a mean shift of **2.21** log₁₀ fluorescent units when compared to a Mouse IgM/Biotin negative control (Catalog #290-030) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD45R antibody (Catalog #195-020).

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

Binding of anti-CD45R/Biotin to human cell types

