

PERFORMANCE DATA SHEET

1818

Monoclonal anti-human CD45RA/Biotin*

mAb name/Clone: 158.4D3

Isotype: Mouse IgG2ak

Immunogen: Stimulated human leukocytes

CATALOG#: 394-030

QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

INFORMATION: Human CD45RA is expressed on all cells of hematopoietic origin, except erythrocytes. CD45RA is a transmembrane tyrosine phosphate 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. The CD45RA isoform predominates on naive/resting T cells and medullary thymocytes. Antibody 158.4D3 recognizes all CD45 molecules containing the A region exon (1,2).

References: 1) Leukocyte Typing III (A.J. McMichael, et al, eds.) Oxford University Press, Oxford, (1987) p. 788-817. 2) A. Gaya, et al, (1990) Intl Immunol 2:685-689. 3.) I.S. Trowbridge & M.L. Thomas, (1994) Annu Rev Immunol 12: 85-116.

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% Na₃ (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: Five x 10⁵ cultured human **Raji** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD45RA/Biotin at 5 µg/ml. Cells were washed twice and incubated 2^o reagent Streptavidin/R-PE (Catalog #253-050) after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 2.86 log₁₀ fluorescent units when compared to a Mouse IgG2a/Biotin negative control (Catalog #281-030). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD45RA antibody (Catalog #394-020).

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

Binding of anti-CD45RA/Biotin to human raji cells

