

PERFORMANCE DATA SHEET

3116

Monoclonal anti-human CD45/Biotin*

mAb name/Clone: C11

Isotype: Mouse IgG2aκ

Immunogen: Peripheral blood mononuclear cells

CATALOG#: 196-030

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 C11 recognizes all isoforms of CD45.

References: U. Dianzani, et al, (1992) Eur J Immunol **22**: 365-371. 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. 386-399. 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: Five x 10⁵ cultured human Jurkat cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD45/Biotin at 5 µg/ml. Cells were then washed twice and incubated 45 minutes with 2^o reagent Streptavidin/R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 2.41 log₁₀ fluorescent units when compared to a Mouse IgG2a/Biotin negative control (Catalog #281-030). Binding was blocked when cells were pre incubated with 20 µl of 0.5 mg/ml anti-CD45 antibody (Catalog #196-020).

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

Binding of anti-CD45/Biotin +SA/PE to human Jurkat cells

