

# PERFORMANCE DATA SHEET

3116

## Monoclonal anti-human CD45/Biotin\*

**mAb name/Clone:** C11

**Isotype:** Mouse IgG2a $\kappa$

**Immunogen:** Peripheral blood mononuclear cells

**CATALOG#:** 196-030

**QUANTITY:** 100  $\mu$ g

**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% NaN<sub>3</sub> (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 10<sup>5</sup> cultured human Jurkat cells were washed and incubated 45 minutes on ice with 80  $\mu$ l of anti-CD45/Biotin at 5  $\mu$ g/ml. Cells were then washed twice and incubated 45 minutes with 2<sup>o</sup> 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 log<sub>10</sub> fluorescent units when compared to a Mouse IgG2a/Biotin negative control (Catalog #281-030). Binding was blocked when cells were pre incubated with 20  $\mu$ l 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**

