

PERFORMANCE DATA SHEET

1817

Monoclonal anti-human CD45/FITC*

mAb name/Clone: C11

Isotype: Mouse IgG2a κ

Immunogen: Peripheral blood mononuclear cells

CATALOG#: 196-040

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6 μ l 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 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 is not recommended. 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, 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% Immunoglobulin by SDS-PAGE, and reacted with FITC. Unconjugated FITC was removed from conjugate using a desalting column. Antibody conjugate is at 50 μ g/ml with a Fluorescein/IgG molar ratio of 5.1.

PERFORMANCE: Five x 10⁵ ficoll prepared human peripheral blood mononuclear cells were washed and pre incubated 5 minutes with 20 μ l human IgG at 250 μ g/ml (to block non specific binding) after which they were incubated 45 minutes on ice with 80 μ l of anti-CD45/FITC at a 1:50 dilution (1 μ g/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 2.03 log₁₀ fluorescent units when compared to a Mouse IgG2a/FITC negative control (Catalog #281-040) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 μ l of anti-CD45 antibody (Catalog #196-020) at 0.5 mg/ml.

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

Binding of anti-CD45/FITC to human PBMC

