

# PERFORMANCE DATA SHEET

2421

## Monoclonal anti-human CD45/R-PE \*

**mAb name/Clone:** C11

**Isotype:** Mouse IgG2ak

**Immunogen:** Peripheral blood mononuclear cells

**CATALOG#:** 196-050

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2 ml

**WORKING DILUTION:** 1:50 (or use 1.6µl of concentrated stock per  $5 \times 10^5$ -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. Do not freeze! 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, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% Na<sub>3</sub>N (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **0.5 mg/ml** with an A<sub>565</sub>/A<sub>280</sub> ratio of 2.98.

**PERFORMANCE:** Five  $\times 10^5$  ficoll prepared human peripheral blood mononuclear cells were washed and pre incubated ~10 minutes with 20 µl human IgG at 250 µg/ml (to block non specific binding), after which they were incubated 45 minutes on ice with 80 µl of anti-CD45/R-PE at a 1:50 dilution (10 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 2.4 log<sub>10</sub> fluorescent units when compared to a Mouse IgG2a/R-PE negative control (Catalog #281-050). Binding was blocked when cells were pre incubated 10 minutes 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/PE to human PBMC**

