PERFORMANCE DATA SHEET
1938

Monoclonal anti-human CD8/PE-Cy7*

mAb name/Clone: **14**
Isotype: Mouse IgG1
Immunogen: Human Thymocytes

CATALOG#: 154-070
QUANTITY: 120 tests **VOLUME IN VIAL: 0.2ml**
WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 10^5-cell test)

INFORMATION: Human CD8 is a heterodimeric protein consisting of an α and β chain, each about 33 kd. CD8 is expressed on most thymocytes and on about one third of peripheral blood T cells. CD8 is a co-receptor involved in antigen recognition and binds to the α2 and α3 domain of MHC Class I molecules. Antibody 14 recognizes the CD8 α chain of approximately 33 kd.

References: Leukocyte Typing II (E.L. Reinherz, et al, eds.) Springer Verlag, New York, (1986). R. Zamoyska, (1994) Immunity **1:** 243-246. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 353-356. J. Sun, et al, (1995) J Exp Med **182**: 1275-1280

FLORESCENCE: PE-Cy7 is excited by 488 laser. Its E_{max} is 785nm.

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:_____

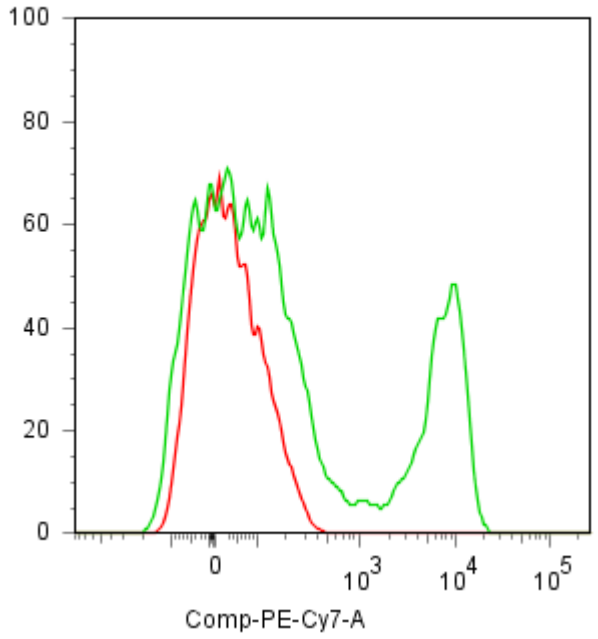
BUFFER: 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN_3 (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was conjugated to Cy7-linked R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **250 µg/ml**.

PERFORMANCE: Reagent was tested for binding to ficoll prepared human peripheral blood mononuclear cells (PBMC) in FACS. Five x 10^5 **PBMC** per tube were washed and pre incubated with 20 µl of 300 µg/ml human IgG (to block non specific binding), after which they were incubated 45 minutes on ice with 80 µl of anti-human CD8/PE-Cy7 at a **1:50** dilution (5 µg/ml). Cells were then washed three times, fixed and analyzed by FACS using a lymphoid gate. A **25.7%** sub population of the cells stained positive with a mean shift of **2.5 $\log_{10}$ fluorescent units** when compared to background. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-human CD8 antibody (Catalog #154-020).

**** Research Use Only. Not for use in Diagnostic procedures.***

Binding of anti-human CD8/PE-Cy7 to human PBL



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