

## PERFORMANCE DATA SHEET

1707

### *Monoclonal anti-human CD8/FITC\**

**mAb name/Clone:** 14

**Isotype:** Mouse IgG1

**Immunogen:** Human thymocytes

**CATALOG#:** 154-040

**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 CD8 is a heterodimeric protein consisting of an  $\alpha$  and  $\beta$  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  $\alpha 2$  and  $\alpha 3$  domain of MHC Class I molecules. Antibody 14 recognizes the CD8  $\alpha$  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.

**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% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at **0.5 mg/ml** with a Fluorescein/IgG molar ratio of 5.4.

**PERFORMANCE:** Five  $\times 10^5$  cultured **HPB-MLT** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD8/FITC at a **1:50** dilution (10µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.55** log<sub>10</sub> fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog #278-040) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD8 antibody (Catalog #154-020).

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

**Binding of anti-CD8/FITC to human HPB-MLT Cells**

