## PERFORMANCE DATA SHEET

3323

## Monoclonal anti-human CD8\*



Clone: 14

**Isotype:** Mouse IgG1

Immunogen: Human thymocytes

CATALOG#: 154-820 (Preservative Free)

QUANTITY: 100 μg CONCENTRATION: 1.0 mg/ml

**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 a CD8  $\beta$  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<sup>o</sup>C. Open under aseptic conditions.* Freeze/Thawing is not recommended.

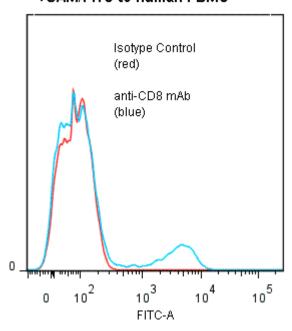
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl.

**PRODUCTION:** Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE and contains less than 1% Bovine Immunoglobulin. Product was 0.2 μm filtered and vialed under aseptic conditions.

**PERFORMANCE:** Five x  $10^5$  ficoll prepared human **peripheral blood mononuclear cells** were washed and pre incubated 5 minutes with 20 µl of 250 µg/ml human IgG (to block non specific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-CD8 antibody at **10** µg/ml. Cells were washed twice and incubated with  $2^0$  reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. A net **11.8%** sub population of the cells stained positive with a mean shift of **1.74** log<sub>10</sub> fluorescent units when compared to a Mouse IgG1 negative control (Catalog # 278-010).

## Binding of anti-CD8 mAb +GAM/FITC to human PBMC



<sup>\*</sup>Research use only. Not for use in Diagnostic procedures.