

PERFORMANCE DATA SHEET

1004

Monoclonal anti-human CD8*

Clone: 14

Isotype: Mouse IgG1

Immunogen: Human thymocytes

CATALOG#: 154-020

QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

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 $\alpha 2$ and $\alpha 3$ domain of MHC Class I molecules. Antibody 14 recognizes a CD8 β 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.

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, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE with less than 1% Bovine Immunoglobulin.

PERFORMANCE: Five x 10⁵ cultured **HPB-MLT** cells per tube were washed and incubated 45 minutes on ice with 80 µl of anti-CD8 antibody at **5 µg/ml**. Cells were washed twice and incubated with 2^o reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.28** log₁₀ fluorescent units when compared to a Mouse IgG1 negative control (Catalog # 278-010) at a similar concentration.

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

Binding of anti-CD8 antibody to human cell lines

