2003



Monoclonal anti-human CD34*

mAb name/Clone: 43A1 *Isotype:* Mouse IgG3 kappa

Immunogen: Human KG-1a tumor cells

CATALOG#: 183-020 QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

INFORMATION: Human CD34 is an unusual glycosylated membrane protein exclusively expressed on immature hematopoietic cells and on endothelial cells. CD34 may have a role in cell adhesion. CD34 has extensive utility for bone marrow transplantation. Antibody 43A1 recognizes a class 2 epitope of the 110 kd CD34 molecule. References: H.J. Bühring, et al. (1991) Leukemia 5: 854-860. Leukocyte Typing V (S.F. Schlossman, et al., eds.) Oxford University Press, Oxford, (1995) p. 840-874. R.H. Collins, (1994) Stem Cells 12: 577-585. T.L. Holyoake & M.J. Alcorn, (1994) Blood Reviews 8: 113-124.

STORAGE CONDITIONS: *Store at 2 - 5°C*. Freeze/Thawing is not recommended.

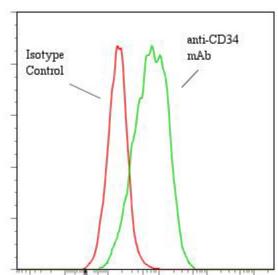
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:

BUFFER: 50 mM Sodium Phosphate pH 7.5, 500 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 and contains less than 1% Bovine Immunoglobulin.

PERFORMANCE: Five $\times 10^5$ cultured **KG-1** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD34 antibody at a concentration of 10 µg/ml. Cells were washed twice and incubated 20 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 $0.7 \log_{10}$ fluorescent units when compared to a Mouse IgG3 negative control (Catalog # 287-010) at a similar concentration.

Binding of anti-CD34 antibody +GAM/FITC to



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

human KG-1 cells