

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 x 10⁵ 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 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 **0.7 log₁₀** fluorescent units when compared to a Mouse IgG3 negative control (Catalog # 287-010) at a similar concentration.

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

Binding of anti-CD34 antibody +GAM/FITC to human KG-1 cells

