PERFORMANCE DATA SHEET

1746

Monoclonal anti-human CD34/Biotin*



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

Immunogen: Human KG-1a tumor cells

CATALOG#: 183-030 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^oC*. Freeze/thawing not recommended.

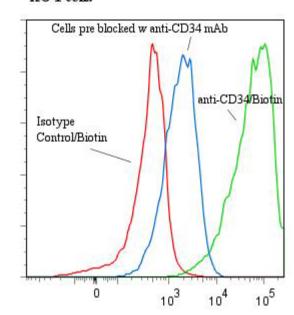
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

PERFORMANCE: Five x 10^5 cultured **KG-1** human tumor 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-CD34/Biotin at **10** μg/ml. Cells were washed twice and incubated with 2^0 reagent Streptavidin/R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **2.2** \log_{10} fluorescent units when compared to a Mouse IgG3/Biotin negative control (Catalog #287-030). Binding was blocked when cells were pre incubated 10 minutes with 20 μl of 0.5 mg/ml anti-CD34 antibody (Catalog #183-020).

Binding of anti-CD34/Biotin to human KG-1 cells



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^{*} Research Use Only. Not for use in Diagnostic procedures.