PERFORMANCE DATA SHEET

2707



Monoclonal anti-human CD43 (leukosialin)/Biotin*

mAb name/Clone: **DFT1** *Isotype:* Mouse IgG1

Immunogen: Human KG-1 tumor cells

CATALOG#: 192-030 QUANTITY: 100 μg

CONCENTRATION: 1.0 mg/ml

INFORMATION: Human CD43 is a heavily O-glycosylated and sialylated transmembrane protein that is mainly found on T cells, but not on B cells. Antibody DFT1 recognizes epitope A of the CD43 molecule on pMN of about 135 kd (1,3). Antibody DFT1 partially induces apoptosis in hemopoetic progenitor cells and also induces hemopoetic aggregation. **References:** 1.) W.P. Stross, et al, (1989) J Clin Pathol 42:953-961. 2.) Leukocyte Typing IV (W. Knapp, et al, eds.) Oxford University Press, Oxford, (1989) p. 1697-1713. 3.) Leukocyte Typing VI (T. Kishimoto, et al, eds.) Garland Publishing, Inc., New York (1997) p. 494-497.

STORAGE CONDITIONS: *Store at 2 - 5^oC*. Freeze/thawing not recommended.

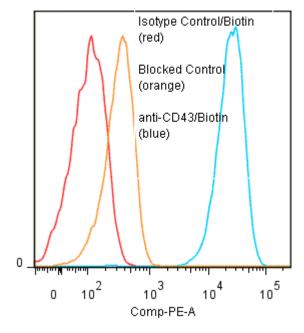
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

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 human **Jurkat-4G** cells were incubated 45 minutes on ice with 80 μl of anti-CD43/Biotin at a concentration of **5 μg/ml**. Cells were washed twice and incubated with 2^0 reagent Streptavidin/R-PE (Catalog #253-050) after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **2.38** \log_{10} fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog #278-030) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 μl of 0.5 mg/ml anti-CD43 antibody (Catalog #192-020).

Binding of anti-CD43/Biotin + SA/PE to human Jurkat cells



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