## PERFORMANCE DATA SHEET

2322



## Monoclonal anti-human CD71 (Transferrin receptor)/FITC\*

mAb name/Clone: DF1513 Isotype: Mouse IgG1 Immunogen: Human PBL

CATALOG#: 223-040
QUANTITY: 120 tests

VOLUME IN VIAL: 0.2ml
WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 10<sup>5</sup>-cell test)

**INFORMATION:** Human CD71 is a type II transmembrane glycoprotein found on activated leukocytes. CD71 binds transferrin and mediates uptake of iron through endocytosis and recycling. Antibody DF1513 recognizes the CD71 molecule of about 95 kd.

**References:** 1)Leukocyte Typing IV (W. Knapp, et al, eds.) Oxford University Press, Oxford, (1989) p. 455-460. 2)Leukocyte Typing VI (T. Kishimoto, et al, eds.) Garland Publishing, Inc., New York (1997) p. 524-527.

**STORAGE CONDITIONS:** *Store at 2 - 5<sup>o</sup>C*. Freeze/Thawing is not recommended. Protect from light.

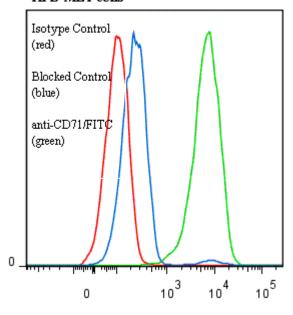
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at **0.25 mg/ml** with a Fluorescein/IgG molar ratio of 4.7.

**PERFORMANCE:** Five x  $10^5$  cultured **HPB-MLT** cells were washed and pre incubated 5 minutes with 20μl of human IgG at 250 μg/ml (to block non specific binding) after which they were incubated 45 minutes on ice with 80 μl of anti-CD71/FITC at a **1:50** dilution factor (5 μg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.83**  $\log_{10}$  fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog #278-040). Binding was blocked when cells were pre incubated 10 minutes with 20 μl of 0.5 mg/ml anti-CD71 antibody (Catalog #223-020).

## Binding of anti-CD71/FITC to human HPB-MLT cells



Ancell Corporation P.O. Box 87 Bayport, MN 55003-0087 USA Phone: Toll free 800-374-9523 or 651-439-0835 Fax: 651-439-1940

<sup>\*</sup>Research Use Only. Not for use in Diagnostic procedures.