## PERFORMANCE DATA SHEET

3321



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

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

CATALOG#: 223-050 QUANTITY: 120 tests

**VOLUME IN VIAL: 0.2 ml** 

**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  $2 - 5^{\circ}C$ . Do not freeze! Protect from light.

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

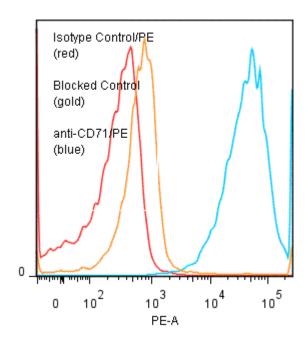
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography.

Antibody conjugate is at **0.5 mg/ml** with an  $A_{565}/A_{280}$  ratio of 2.86.

**PERFORMANCE:** Cultured human **HPB-MLT** cells were washed and pre incubated 5 minutes with 20μl of 250μg/ml human IgG (to block nonspecific binding) after which they were incubated 45 minutes on ice with 80 μl of anti-CD71/R-PE at a dilution factor of **1:50** (10μg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **2.22** log<sub>10</sub> fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog #278-050). 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/PE to human HPB-MLT cells



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