

# PERFORMANCE DATA SHEET

1817

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

**mAb name/Clone:** DF1513

**Isotype:** Mouse IgG1

**Immunogen:** Human PBL

**CATALOG#:** 223-020

**QUANTITY:** 100 µg

**CONCENTRATION:** 1.0 mg/ml

**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°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, 100 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 with less than 1% Bovine Immunoglobulin.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured **HPB-MLT** 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-CD71 antibody at **5 µg/ml**. Cells were washed twice and incubated with 2<sup>o</sup> 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 **2.23 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG1 negative control (Catalog # 278-010).

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

**Binding of anti-CD71 antibody to human HPB-MLT cells**

