

**PERFORMANCE DATA SHEET**

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

**mAb name/Clone:** DF1513

**Isotype:** Mouse IgG1

**Immunogen:** Human PBL

**CATALOG#:** 223-030

**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.

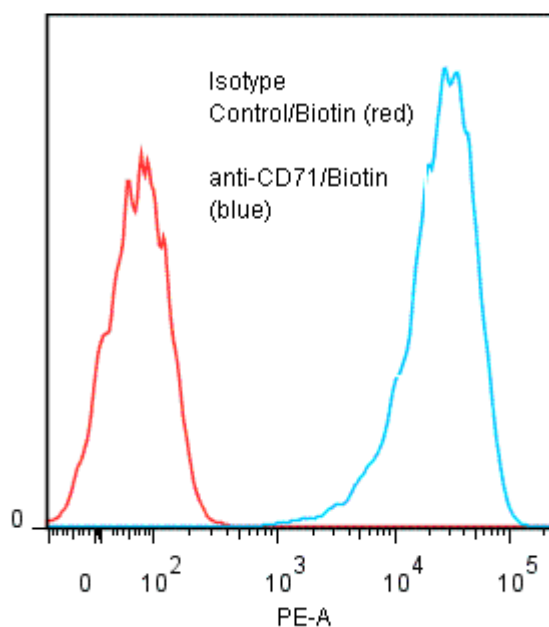
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (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<sup>5</sup> cultured **HPB-MLT** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD71/Biotin at **5 µg/ml**. Cells were washed twice and incubated with 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 **2.38** log<sub>10</sub> fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog #278-030). Binding was blocked when cells were pre incubated with 20µl of 0.5mg/ml unlabeled anti-CD71 mAb.

**Binding of anti-CD71/Biotin +SA/PE to human HPB-MLT cells**



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