

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 5×10^5 -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°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_3 (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 $\times 10^5$ 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).

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

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

