PERFORMANCE DATA SHEET
1840

Monoclonal anti-human CD14/FITC*

mAb name/Clone: **UCHM1**
Isotype: Mouse IgG2a
Immunogen: Human thymocytes/Sezary T cells

CATALOG#: 163-040
QUANTITY: 120 tests **VOLUME IN VIAL: 200 µl**
WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 10^5-cell test)

INFORMATION: Human CD14 is strongly expressed on myelomonocyte lineage cells including monocytes, macrophages, and a subset of granulocytes. CD14 is a high affinity receptor for complexes of lipopolysaccharide and lipopolysaccharide binding protein. A soluble form of CD14 also binds to LPS and LBP. Antibody UCHM1 recognizes a membrane bond CD14 molecule of about 53 kd. UCHM1 will also immunoprecipitate a soluble form of CD14.

References: N. Hogg, et al, (1984) Immunology **53**: 753-767. M.O. Labeta, et al, (1993) Eur J Immunol **23**: 2144-2151.
Leukocyte Typing IV (W. Knapp, et al, eds.) Oxford University Press, Oxford, (1989) "Reference Antibody".
Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 778-788.
S.D. Wright, (1995) J Immunol **155**: 6-8.

STORAGE CONDITIONS: ***Store at 2 - 5^{o}C***. Freeze/Thawing is not recommended. Protect from light.

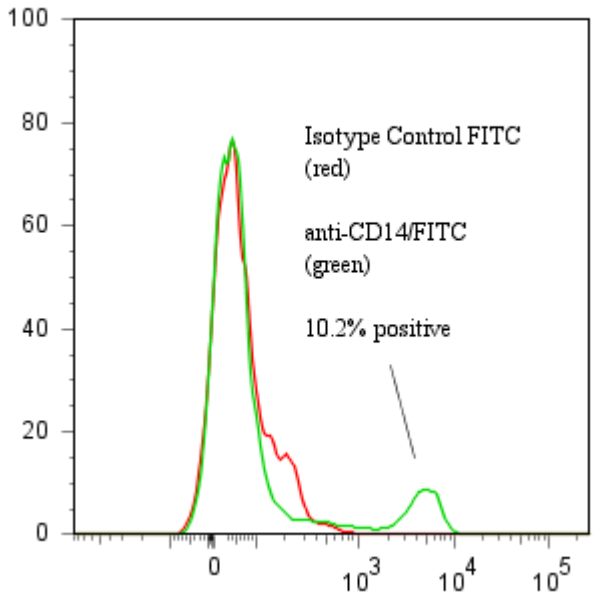
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

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: Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to 95% Immunoglobulin by SDS-PAGE, and reacted with FITC. Unconjugated FITC was removed from conjugate using a desalting column. Antibody conjugate is at approximately **0.5 mg/ml** with a Fluorescein/Antibody molar ratio of 6.9.

PERFORMANCE: Five x 10^5 ficoll prepared human **peripheral blood mononuclear 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-CD14/FITC at a **1:50** dilution (10 µg/ml). Cells were washed three times, fixed and analyzed by FACS. A net **10.2%** sub population of the cells stained positive with a mean shift of **1.81** $\log_{10}$ fluorescent units when compared to a Mouse IgG2a/FITC negative control (Catalog # 281-040). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD14 antibody (Catalog #163-020).

Binding of anti-CD14/FITC to human PBMC



**** Research use only. Not for use in Diagnostic procedures.***

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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