

**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<sup>5</sup>-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 bound 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°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<sub>3</sub> (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<sup>5</sup> 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<sub>10</sub>** fluorescent units when compared to a Mouse IgG2a/FITC negative control (Catalog # 281-040) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD14 antibody (Catalog #163-020).

*\*This Product is intended for Laboratory Research use only.*

