PERFORMANCE DATA SHEET 1746 Monoclonal anti-human CD14/R-PE*

mAb name/Clone: UCHM1 *Isotype:* Mouse IgG2aκ *Immunogen:* Human monocytes

CATALOG#: 163-050 QUANTITY: 120 tests WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 10⁵-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°C. Do not freeze! Protect from light.

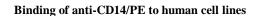
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

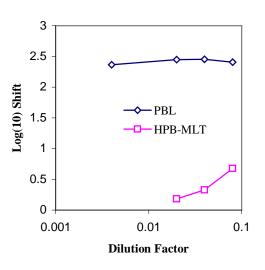
BUFFER: 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **0.25 mg/ml** with an A_{565}/A_{280} ratio of 3.2.

PERFORMANCE: Five x 10^5 ficoll prepared **human peripheral white blood cells** were washed and pre incubated 5 minutes with 20 µl 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-CD14/R-PE at a **1:50** dilution factor (5µg/ml). Cells were washed three times, fixed and analyzed by FACS. A net **6.6%** subpopulation of the cells stained positive with a mean shift of **2.45** log₁₀ fluorescent units when compared to a Mouse IgG2a/R-PE negative control (Catalog #281-050) 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.* R-Phycoerythrin (R-PE) is covered under patents: U.S. 4,520,110; European 76,695 and Canadian 1,179,942.





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