

**PERFORMANCE DATA SHEET**  
2335

**Monoclonal anti-human CD64 (FcγRI)/FITC\***

**mAb name/Clone:** 10.1

**Isotype:** Mouse IgG1

**Immunogen:** Human rheumatoid synovial fluid cells/monocytes

**CATALOG#:** 216-040

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2ml

**WORKING DILUTION:** 1:50 (or use 1.6µl of concentrated stock per 5 x 10<sup>5</sup>-cell test)

**INFORMATION:** Human CD64 is a high affinity receptor for monomeric human IgG1 and IgG3 which is expressed on macrophages, monocytes, and gamma interferon induced neutrophils. CD64 plays an important role in clearance of immune complexes and in antibody dependent cytotoxicity. Antibody 10.1 recognizes the CD64 molecule of 72 kd from gene FcγRIA. Antibody 10.1 blocks binding of FcγRI to immunoglobulin opsonized cells.

**References:** G.J. Dougherty, et al, (1987) Eur J Immunol **17**: 1453-1459. Y. Jayaram, et al, (1989) Clin Exp Immunol **75**: 414-420. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 874-875. D.L. Durden, et al, (1995) J Immunol **154**: 4039-4047. L.L. Marnell, et al, (1995) J Immunol **155**: 2185-2193.

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

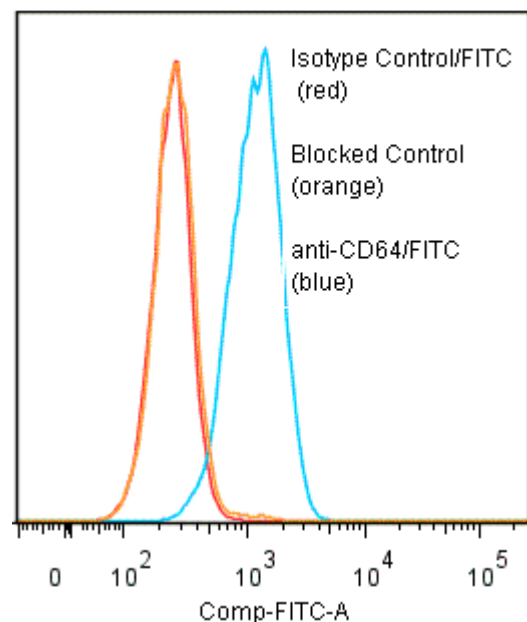
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: \_\_\_\_\_

**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:** 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 0.5 mg/ml with a Fluorescein/IgG molar ratio of 7.5.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured U-937 cells were incubated 45 minutes on ice with 80 µl of anti-CD64/FITC at a 1:50 dilution (10µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 0.68 log<sub>10</sub> fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog #278-040) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD64 antibody (Catalog #216-020).

**Binding of anti-CD64/FITC to human U-937 cells**



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