

# PERFORMANCE DATA SHEET

3110

## Monoclonal anti-human CD64 (FcγRI) Fab\*

**mAb name/Clone:** 10.1

**Isotype:** Mouse IgG1

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

**CATALOG#:** 216-580

**QUANTITY:** 100 µg

**CONCENTRATION:** 1.0 mg/ml

**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. *Open under aseptic conditions. Freeze/Thawing is not recommended.*

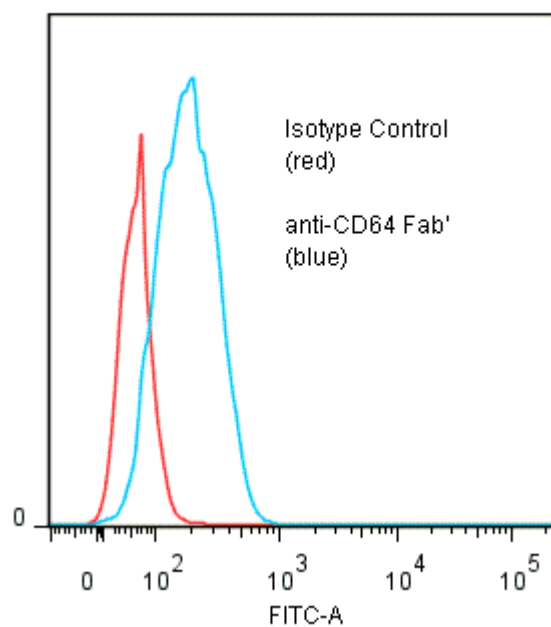
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: \_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl. Product was sterile filtered and vialled under aseptic conditions. **No preservative added.**

**PRODUCTION:** Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Immunoglobulin was enzymatically cleaved using Immobilized Ficin. F(ab) was separated from F(ab')<sub>2</sub>, intact antibody and Fc fragments using Protein A and Size exclusion chromatography. Purity was >90% Fab by SDS-PAGE with no intact mAb visible.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured **U-937** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD64 F(ab) at a concentration of **10 µg/ml**. Cells were washed twice and incubated with 2<sup>o</sup> reagent Goat anti-Mouse/FITC (Catalog # 232-011), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.55 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG1 Fab negative control (Catalog # 278-580).

**Binding of anti-CD64 Fab' with GAM/FITC to human U-937 cells**



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