

PERFORMANCE DATA SHEET

2045

Monoclonal anti-human CD64 (FcγRI) F(ab')₂*

mAb name/Clone: 10.1

Isotype: Mouse IgG1

Immunogen: Human rheumatoid synovial fluid cells/monocytes

CATALOG#: 216-520

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')₂ was separated from intact antibody and Fc fragments by Protein A and Size exclusion chromatography. Purity was >90% F(ab')₂ by SDS-PAGE.

PERFORMANCE: Five x 10⁵ cultured **U-937** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD64 F(ab')₂ at a concentration of **10 µg/ml**. Cells were washed twice and incubated with 2^o 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 **0.68** log₁₀ fluorescent units when compared to a Mouse IgG1 F(ab')₂ negative control (Catalog # 278-520).

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

Binding of anti-CD64 F(ab')₂ +GAM/FITC to human U-937 cells

