

**PERFORMANCE DATA SHEET**

2735

**Monoclonal anti-human CD11c/FITC\***

**mAb name/Clone:** 3.9

**Isotype:** Mouse IgG1

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

**CATALOG#:** 160-040

**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 CD11c (α<sup>X</sup> integrin) complexes with CD18 (β<sub>2</sub> integrin) to form the complement receptor type 4 (CR4) heterodimer which binds to fibrinogen and is involved with monocyte/granulocyte adhesion during inflammatory responses. CD11c expression is restricted to leukocytes mainly of myeloid lineage with highest expression on macrophages. Antibody 3.9 recognizes the integrin alpha X subunit (CD11c) of about 150 kd.

**References:** N. Hogg, et al, (1986) Eur J Immunol **16**: 240-248. S.A. Stacker & T.A. Springer, (1991) J Immunol **146**: 648-655. M. Patarroyo, (1994) Immunobiology **191**: 474-477. Leukocyte Typing V (1995) (S.F. Schlossman, et al., eds.) Oxford University Press, Oxford, p. 1590-1592.

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

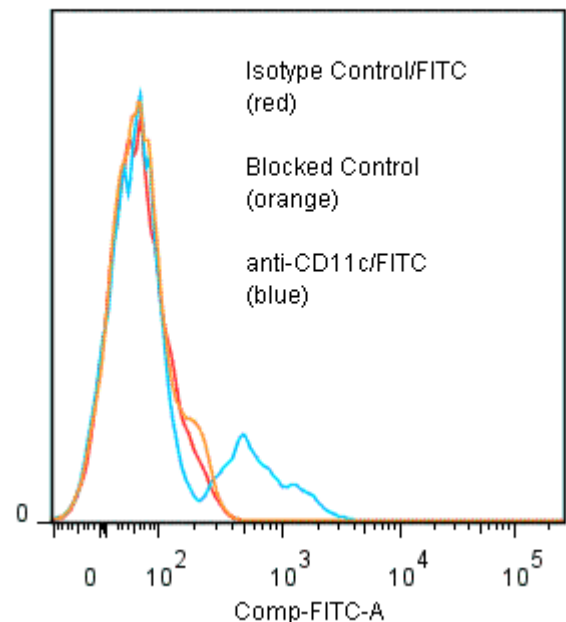
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: \_\_\_\_\_

**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 5.9.

**PERFORMANCE:** Five x 10<sup>5</sup> ficoll prepared **human peripheral blood mononuclear cells** were washed and pre incubated 5 minutes with 20µl of 250µg/ml human IgG (to block non specific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-CD11c/FITC at a **1:50** dilution (10 µg/ml). Cells were washed three times, fixed and analyzed by FACS. A net **20%** sub population of the cells stained positive with a mean shift of **1.1 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog # 278-040). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD11c antibody (Catalog #160-020).

**Binding of anti-CD11c/FITC to human PBMC**



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