

**PERFORMANCE DATA SHEET**

1816

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

**mAb name/Clone:** 3.9

**Isotype:** Mouse IgG1

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

**CATALOG#:** 160-030

**QUANTITY:** 100 µg

**CONCENTRATION:** 1.0 mg/ml

**INFORMATION:** Human CD11c (α<sup>X</sup> integrin) complexes with CD18 (β2 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 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, 5% Glycerol, 0.2% BSA, 0.04% Na<sub>3</sub>N (as a preservative).

**PRODUCTION:** Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

**PERFORMANCE:** Five x 10<sup>5</sup> ficoll prepared human **peripheral blood mononuclear cells** were washed pre incubated ~10 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-CD11c/Biotin at a concentration of **5 µg/ml**. Cells were washed twice and incubated with 2<sup>o</sup> reagent Streptavidin/R-PE (Catalog #253-050) after which they were washed three times, fixed and analyzed by FACS. A net **16.5%** sub population of the cells stained positive with a mean shift of **1.60 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog # 278-030). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD11c antibody (Catalog #160-020).

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

**Binding of anti-CD11c/Biotin to human cell types**

