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 (a^X 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.

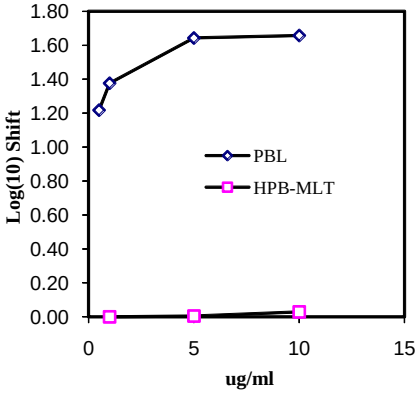
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN_3 (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 10^5 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° 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** $\log_{10}$ fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog # 278-030) at a similar concentration. 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/Biotin to human cell types



****This Product is intended for Laboratory Research use only.***

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