## PERFORMANCE DATA SHEET

3204

## Monoclonal anti-human CD74/Biotin\*



*mAb name/Clone:* M-B741 *Isotype:* Mouse IgG2a

Immunogen: RPMI 1788 Cell Line

**CATALOG#: 226-030 QUANTITY: 100 μg** 

**CONCENTRATION: 1.0 mg/ml** 

**INFORMATION:** Human CD74 is expressed intracellularly and on the cell surface of MHC Class II positive cells such as B cells, monocytes, macrophages, Langerhans cells and dendritic cells. CD74 has several important functions relating to antigen presentation by MHC Class II molecules. Antibody M-B741 recognizes the CD74 molecule of about 33 kd.

*References:* Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 568-574. P. Romagnoli & R.N. Germain, (1995) J Exp Med **182:** 2027-2036.

**STORAGE CONDITIONS:** *Store at 2 - 5<sup>o</sup>C*. Freeze/thawing not recommended.

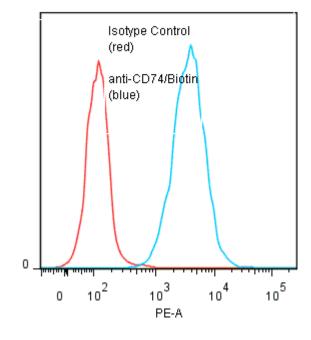
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (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  $10^5$  cultured **Raji** cells were washed and incubated 45 minutes on ice with 80  $\mu$ l of anti-CD74/Biotin at a concentration of **5**  $\mu$ g/ml. Cells were washed twice and incubated with  $2^0$  reagent Streptavidin/R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACs. Cells stained positive with a mean shift of **1.54**  $\log_{10}$  fluorescent units when compared to a Mouse IgG2a/Biotin negative control (Catalog #281-030). Binding was blocked when cells were pre incubated 10 inutes with 20  $\mu$ l of 0.5 mg/ml anti-CD74 antibody (Catalog #226-020).

## Binding of anti-CD74/Biotin +SA/PE to human Raji cells



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<sup>\*</sup> Research Use Only. Not for use in Diagnostic procedures.