

## PERFORMANCE DATA SHEET

1817

# 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°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<sup>5</sup> cultured **Raji** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD74/Biotin at a concentration of 5 µg/ml. Cells were washed twice and incubated with 2<sup>o</sup> 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 1.77 log<sub>10</sub> fluorescent units when compared to a Mouse IgG2a/Biotin negative control (Catalog #281-030) at a similar concentration. Binding was blocked when cells were pre incubated 10 inutes with 20 µl of 0.5 mg/ml anti-CD74 antibody (Catalog #226-020).

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

Binding of anti-CD74/Biotin in humna cell lines

