

## PERFORMANCE DATA SHEET

1817

### Monoclonal anti-human CD74/R-PE \*

**mAb name/Clone:** M-B741

**Isotype:** Mouse IgG2a

**Immunogen:** RPMI 1788 Cell Line

**CATALOG#:** 226-050

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2 ml

**WORKING DILUTION:** 1:50 (or use 1.6µl of concentrated stock per 5 x 10<sup>5</sup>-cell test)

**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. Do not freeze! Protect from light.

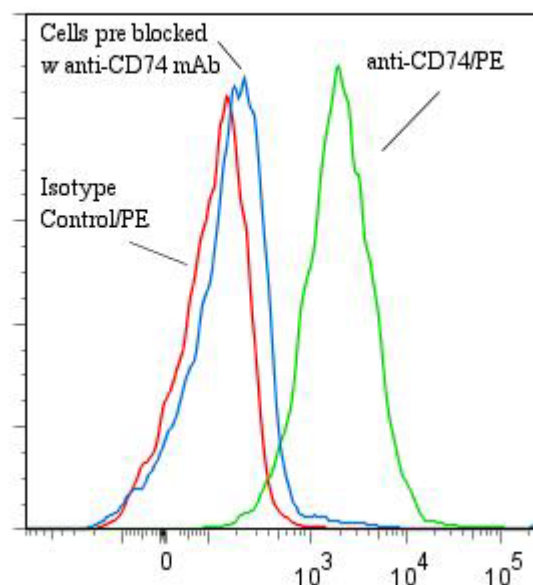
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: \_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% Na<sub>3</sub>N (as a preservative).

**PRODUCTION:** Antibody was Protein A purified from (low FBS containing) tissue culture supernatant, and conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **0.5 mg/ml** with an A565/A280 ratio of 2.6.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured **Raji** human tumor cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD74/R-PE at a **1:50** dilution (10 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.35 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG2a/R-PE negative control (Catalog #281-050). Binding was blocked when cells were pre incubated with 20 µl of 0.5 mg/ml unlabeled anti-CD74 antibody (Cat# 226-020).

**Binding of anti-CD74/PE to human Raji cells**



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