

# PERFORMANCE DATA SHEET

1817

## Monoclonal anti-human CD74/FITC\*

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

**Isotype:** Mouse IgG2a

**Immunogen:** RPMI 1788 Cell Line

**CATALOG#:** 226-040

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2 ml

**WORKING DILUTION:** 1:50 (1.6µl conc 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. Freeze/Thawing is not recommended. 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, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at approximately **0.5 mg/ml** with a Fluorescein:Ab molar ratio of 7.7.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured **Raji** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD74/FITC at a **1:50** dilution. Cells were then washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.8 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG2a/FITC negative control (Catalog #281-040) at a similar concentration. This shift was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD74 antibody (Catalog #226-020).

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

### Binding of anti-CD74/FITC to human Raji Cells

