## PERFORMANCE DATA SHEET

1730

## Monoclonal anti-human CD13/R-PE\*



*mAb name/Clone:* 22A5 *Isotype:* Mouse IgG2aκ

Immunogen: Human osteosarcoma tissue

CATALOG#: 162-050 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 CD13 is a zinc-binding aminopeptidase-N enzyme expressed on the surface of myeloid cells. IL-4 will upregulate expression of CD13 which may play an anti-inflammatory role. Antibody 22A5 recognizes the cell surface aminopeptidase-N enzyme.

**References:** M.A. Horton, et al, (1985) Cancer Res **45**: 5663-5669. R.A. Ashmun & A.T. Look (1990) Blood **75**: 462-471. P.T.W. van Hal, et al, (1994) J Immunol **153**: 2718-2728.

STORAGE CONDITIONS: Store at  $2 - 5^{\circ}C$ . 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:\_\_\_\_\_

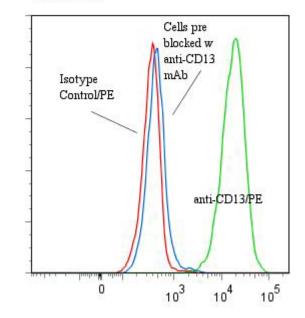
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was 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  $A_{565}/A_{28}0$  ratio of 2.50.

**PERFORMANCE:** Five x  $10^5$  cultured **THP-1** cells were washed and pre incubated with 20 μl of 250 μg/ml human IgG (to block non specific binding) after which they were incubated 45 minutes on ice with 80 μl of anti-CD13/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 **2.47** 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 10 minutes with 20 μl of 0.5 mg/ml anti-CD13 antibody (Catalog #162-020).

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

Binding of anti-CD13/PE to human THP-1 cells



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