

**PERFORMANCE DATA SHEET**

2348

**Monoclonal anti-human CD13/APC\*****mAb name/Clone:** 22A5**Isotype:** Mouse IgG2ak**Immunogen:** Human osteosarcoma tissue**CATALOG#:** 162-060**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°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 Allophycocyanin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **0.5 mg/ml**, with an A<sub>650</sub>/A<sub>280</sub> ratio of 2.44.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured human **THP-1** cells were washed and preincubated 5 minutes with 20 µl of 0.3 mg/ml human IgG (to block non specific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-CD13/APC 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 **2.51 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG1/APC negative control (Catalog #278-060) at a similar concentration. 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/APC to human THP-1 cells**