**PERFORMANCE DATA SHEET**
**2134**

# *Monoclonal* anti-human CD13/FITC*

***mAb name/Clone:*** **22A5**
***Isotype:*** Mouse IgG2aκ
***Immunogen:*** Human osteosarcoma tissue

**CATALOG#: 162-040**
**QUANTITY: 120 tests** **VOLUME IN VIAL: 0.2 ml**
**WORKING DILUTION: 1:50** (or use 1.6µl of concentrated stock per 5 x $10^5$-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***. Freeze/Thawing is not recommended. Protect from light.

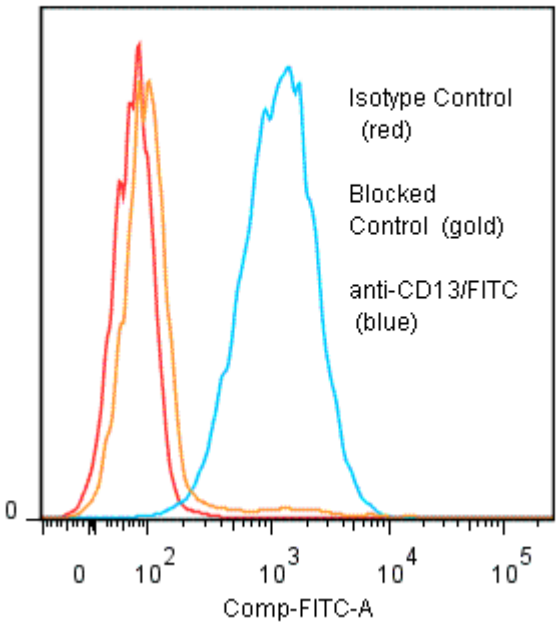
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% $NaN_3$ (as a preservative).

**PRODUCTION:** Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to 95% Immunoglobulin by SDS-PAGE, and reacted with FITC. Unconjugated FITC was removed from conjugate using a desalting column. Antibody conjugate is at **0.25 mg/ml** with a Fluorescein/IgG molar ratio of 7.0.

**PERFORMANCE:** Five x $10^5$ cultured **THP-1** cells were washed and pre incubated 5 minutes with 20µl of 250µg/ml human IgG (to block nonspecific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-CD13/FITC at a **1:50** dilution (5 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.21** $\log_{10}$ fluorescent units when compared to a Mouse IgG2a/FITC negative control (Catalog # 281-040) 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).

**Binding of anti-CD13/FITC to human THP-1 cells**




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

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