

PERFORMANCE DATA SHEET

1730

Monoclonal anti-human CD13/R-PE*

mAb name/Clone: 22A5

Isotype: Mouse IgG2ak

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 10⁵-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% NaN₃ (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 A₅₆₅/A₂₈₀ ratio of 2.50.

PERFORMANCE: Five x 10⁵ 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 log₁₀** fluorescent units when compared to a Mouse IgG2a/R-PE negative control (Catalog #281-050) 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).

**This Product is intended for Laboratory Research use only.*

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

