

PERFORMANCE DATA SHEET

2539

Monoclonal anti-human CD13/Biotin*

mAb name/Clone: 22A5

Isotype: Mouse IgG2ak

Immunogen: Human osteosarcoma tissue

CATALOG#: 162-030

QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

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 not recommended.

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% NaN₃ (as a preservative).

PRODUCTION: Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

PERFORMANCE: Five x 10⁵ ficoll prepared human Peripheral Blood Mononuclear cells (PBMC) cells were washed and pre incubated ~5 minutes with 20µl of 250 µg/ml human IgG (to block nonspecific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-CD13/Biotin at 10 µg/ml. Cells were washed twice and incubated with 50 µl of 2^o reagent Streptavidin/R-PE (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. A 10% sub population of the cells stained positive with a mean shift of 1.57 log₁₀ fluorescent units when compared to a Mouse IgG2a/Biotin negative control (Catalog #281-030). 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/Biotin +SA/PE to human PBMC

