

PERFORMANCE DATA SHEET

2651

Monoclonal anti-human CD15(Lewis^x)/Biotin*

mAb name/Clone: AHN1.1

Isotype: Mouse IgM

Immunogen: Human neutrophils

CATALOG#: 164-030

QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

INFORMATION: Human CD15 is expressed by neutrophils, eosinophils and monocytes. Antibodies in this cluster recognize a common terminal pentasaccharide found on cell surface glycoproteins and glycolipids. Antibody AHN1.1 reacts with the terminal pentasacchride lacto-N-fucopentaose III known as Lewis^x. Antibody AHN1.1 activates normal monocytes and inhibits neutophil chemotaxis.

References: Leukocyte Typing IV (W. Knapp, et al, eds.) Oxford University Press, Oxford, (1989) p. 798-810. M.A. Kerr & S.C. Stocks, (1992) Histochem J **24**: 811-826. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 790-800.

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, 500 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 size exclusion 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 cultured U-937 cells were washed and preincubated with 20 µl human IgG at 250 µg/ml (to block non specific binding) after which they were and incubated 45 minutes on ice with 80 µl of anti-CD15/Biotin at 10 µg/ml. Cells were then washed twice and incubated 45 minutes with 20 µl of 2^o reagent Streptavidin R-Phycoerythrin (Catalog #253-050), after which they were were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.70 fluorescent units when compared to a Mouse IgM/Biotin negative control (Catalog # 290-030). Binding was blocked when pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD15 antibody (Catalog #164-020).

*Research use only. Not for use in Diagnostic procedures.

Binding of anti-CD15/Biotin +SA/PE to human U-937 cells

