

PERFORMANCE DATA SHEET
2715

Monoclonal anti-human CD66b (CEACAM8)/R-PE *

mAb name/Clone: ANC1D5

Isotype: Mouse IgG1 κ

Immunogen: Recombinant soluble human CD66b

CATALOG#: 217-050

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2ml

WORKING DILUTION: 1:50 (or use 1.6 μ l of concentrated stock per 5 x 10⁵-cell test)

INFORMATION: Human CD66b (CEACAM8, CGMb, NCA-95, CD67) is a 95kD member of the Carcinoembryonic Antigen (CEA) group. It is expressed on granulocytes and functions as an adhesion molecule. Similar to the CD66 a, c, and d isoforms, engagement of CD66b on neutrophils causes increased adhesion to endothelial cells (2). Crosslinking CD66b on neutrophils with antibodies triggers IL-8 release (3).

Antibody from clone ANC1D5 binds to CD66b on the cell surface of human PMN in Flow cytometry and detects recombinant CD66b in sandwich EIA utilizing either clone ANC4A4(Cat #220-020) or ANC3C5(Cat# 219-020) as a capture reagent. **Clone ANC1D5 may cross react with other CD66 isoforms, as it also binds to cell surface of an epithelial tumor line.**

References: 1) W.N. Khan, S. Hammarstrom, et al. (1992) *Genomics* 14(2):384-90. 2) K.M. Skubitz, A.P. Skubitz, et al. (1996) *J Leuk Biol* 60(1): 106-117. 3) A.K. Schroder, L Rink, et al. (2006) *Human Immunol* 67(9): 676-682.

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: _____

50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

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 500 μ g/ml with an A₅₆₅/A₂₈₀ ratio of 2.83.

PERFORMANCE: Five x 10⁵ Polymorphoprep prepared human Granulocytes(PMN) per tube were pelleted and pre incubated 5 minutes with 20 μ l of human IgG at 300 μ g/ml (to reduce non specific binding) after which they were washed and incubated 45 minutes on ice with 80 μ l of anti-CD66b(ANC1D5)/PE at a 1:50 dilution (10 μ g/ml). They were then washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.81 log₁₀ fluorescent units when compared to a Mouse IgG1/PE negative control (Catalog #278-050). Binding was blocked when cells were pre incubated 10 minutes with 20 μ l of 0.5 mg/ml anti-CD66b(ANC1D5) antibody (Catalog #217-020).

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

Binding of anti-CD66b(ANC1D5)/PE to human PMN

