

PERFORMANCE DATA SHEET

2528

Monoclonal anti-human CD66b (CEACAM8)/PE*

mAb name/Clone: ANC4A4

Isotype: Mouse IgG1 κ

Immunogen: Recombinant soluble human CD66b

CATALOG#: 220-050

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 ANC4A4 binds to CD66b on the cell surface of human PMN in Flow cytometry and works as an EIA capture reagent for recombinant CD66b utilizing either clone ANC1D5(Cat #217-030) or ANC3C5(Cat# 219-030) as a detection reagent.

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:_____

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 3.1.

PERFORMANCE: Five x 10⁵ Polymorphprep 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(ANC4A4)/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 **0.53 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(ANC4A4) antibody (Catalog #220-020).

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

Binding of anti-CD66b/PE to human PMN

