

PERFORMANCE DATA SHEET

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Monoclonal anti-human CD66b (CEACAM8)/FITC***mAb name/Clone:** ANC4A4**Isotype:** Mouse IgG1 κ **Immunogen:** Recombinant soluble human CD66b**CATALOG#:** 220-040**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 ANC3C5 binds to CD66b on the cell surface of human PMN in Flow cytometry and works as an EIA capture or detection reagent for recombinant CD66b when paired with clone ANC4A4(Cat #220-020).

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. Freeze/Thawing is not recommended. 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, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at approximately 0.5 mg/ml with a Fluorescein/IgG molar ratio of 7.4.

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) /FITC at a 1:50 dilution (10 μ g/ml). They were then washed three times, fixed and analyzed by FACS. A 54% sub population of the cells stained positive with a mean shift of 1.05 log₁₀ fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog #278-040). 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(ANC4A4)/FITC to human PMN