

## Monoclonal anti-human CD66b (CEACAM8)/Biotin\*

**mAb name/Clone:** ANC1D5

**Isotype:** Mouse IgG1κ

**Immunogen:** Recombinant soluble human CD66b

**CATALOG#:** 217-030

**QUANTITY:** 100 µg

**CONCENTRATION:** 1.0 mg/ml

**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. 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% NaN<sub>3</sub> (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 10<sup>5</sup> Polymorphprep prepared human Granulocytes(PMN) per tube were pelleted and pre incubated 5 minutes with 20µl of human IgG at 300µg/ml (to reduce non specific binding) after which they were washed and incubated 45 minutes on ice with 80 µl of anti-CD66b(ANC1D5) /Biotin at **10 µg/ml**. Cells were washed twice and incubated with 50 µl of 2<sup>o</sup> reagent Streptavidin/PE (Catalog #260-050), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.66 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG1/Biotin isotype control (Catalog # 278-030). Binding was blocked when cells were pre incubated with an excess of unlabeled anti-human CD66b (ANC1D5) mAb (cat# 217-020).

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

**Binding of anti-CD66b/Biotin(ANC1D5)  
+SA/PE to human PMN**

