

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

**mAb name/Clone:** ANC3C5

**Isotype:** Mouse IgG1 $\kappa$

**Immunogen:** Recombinant soluble human CD66b

**CATALOG#:** 219-030

**QUANTITY:** 100  $\mu$ g

**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 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 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 20 $\mu$ l of human IgG at 300 $\mu$ g/ml (to reduce non specific binding) after which they were washed and incubated 45 minutes on ice with 80  $\mu$ l of anti-CD66b antibody(ANC3C5) at **10  $\mu$ g/ml**. Cells were washed twice and incubated with 50  $\mu$ l 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 **1.14 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 (ANC3C5) mAb (cat# 219-020).

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

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

