

PERFORMANCE DATA SHEET

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Monoclonal anti-human CD66b (CEACAM8)***mAb name/Clone:** ANC1D5**Isotype:** Mouse IgG1 κ **Immunogen:** Recombinant soluble human CD66b**CATALOG#:** 217-820 (Preservative-free)**QUANTITY:** 100 μ 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 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): 676-68

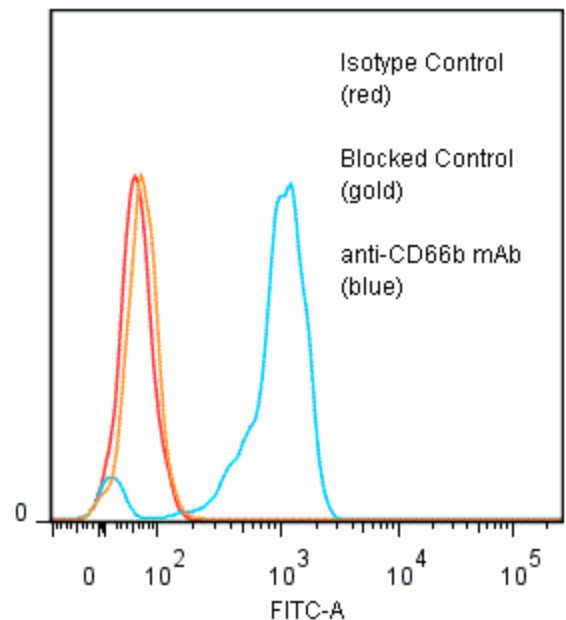
STORAGE CONDITIONS: Store at 2 - 5°C. Open under aseptic conditions. Freeze/Thawing is not recommended.

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.

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE and contains less than 1% Bovine Immunoglobulin. Product was 0.2 μ m filtered and vialled under aseptic conditions.

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 antibody(ANC1D5) at 5 μ g/ml. Cells were washed twice and incubated with 2^o reagent Goat anti-Mouse IgG/FITC (Catalog #232-011) after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.28 log₁₀ fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010) at a similar concentration. Binding was blocked when reagent was pre incubated with a 10-fold excess of recombinant CD66b.

Binding of anti-CD66(ANC1D5) antibody +GAM/FITC to human PMN

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