

PERFORMANCE DATA SHEET
2410

Monoclonal anti-human CD66b (CEACAM8)/FITC*

mAb name/Clone: ANC1D5

Isotype: Mouse IgG1 κ

Immunogen: Recombinant soluble human CD66b

CATALOG#: 217-040

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 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 is not recommended. Protect from light.

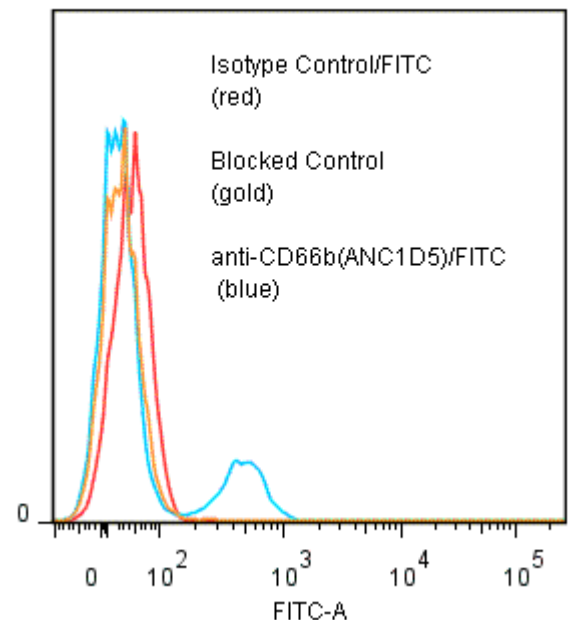
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: _____

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 8.6.

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(ANC1D5) /FITC at a **1:50** dilution (10 μ g/ml). They were then washed three times, fixed and analyzed by FACS. A 16% sub population of the cells stained positive with a mean shift of **1.29 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(ANC1D5) antibody (Catalog #217-020).

Binding of anti-CD66b(ANC1D5)/FITC to human PMN



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