

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

SPECIFICITY

CD66 antigens were originally described as granulocyte-specific activation antigens, related to the carcino-embryonic antigen (CEA) previously described on colon cancer cells. The CEA/CD66 gene group belongs to the immunoglobulin (Ig) gene superfamily (1). Among the CD66 cluster, CD66b (also known as CGM6) is a glycosyl-phosphatidylinositol (GPI)-anchored glycoprotein of 95-100 kDa (2). CD66b is thought to play a role in the regulation of the adhesive activity of CD11/CD18 via signal transduction in neutrophils (3).

The 80H3 antibody has been originally described to react with normal neutrophils and monocytes in peripheral blood and bone marrow (4). It has been assigned, as antibody No. MA155 to the CD66 cluster of differentiation at the Vth International Workshop on Human Leucocyte Differentiation Antigens (HLDA) in Boston, U.S.A., in 1993 (2). It was previously studied as antibody No. 29 at the 1st International Workshop on HLDA (5) and as antibody No. 669 at the IIIrd International Workshop on HLDA (6).

REAGENT

IOTest CD66b-FITC Conjugated Antibody
PN IM0531U – 2 mL Liquid – 20 µL / test*

Clone	80H3
Isotype	IgG1, mouse
Immunogen	Human leucocytes from individuals with CML
Hybridoma	Myeloma MOPC 315-43 x Balb/c
Source	Ascites fluid
Purification	Ion exchange or affinity chromatography
Conjugation	FITC (Fluorescein isothiocyanate) is conjugated at 15 – 25 moles of FITC per mole of Ig.
Fluorescence	FITC (Green) Excites at 468 – 509 nm Emits at 504 – 541 nm

REAGENT CONTENTS

This reagent is provided in phosphate-buffered saline, with 0.1% sodium azide (NaN₃) as preservative, and 2.0 mg / mL bovine serum albumin (BSA).

STATEMENT OF WARNINGS

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.
2. Do not use antibody beyond the expiration date on the label.
3. Samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
4. Never pipet by mouth and avoid contact of samples with skin and mucous membranes
5. Minimize exposure of reagent to light during storage or incubation.
6. Avoid microbial contamination of reagents or incorrect results might occur.
7. Use good laboratory practices when handling this reagent.

STORAGE CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze. Minimize exposure to light.

EVIDENCE OF DETERIORATION

Any change in the physical appearance of this FITC-labeled reagent (clear, colorless to yellowish-green liquid) or any major variation in values obtained for control samples may indicate deterioration and the reagent should not be used.

REAGENT PREPARATION

No preparation is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

SELECTED RESEARCH REFERENCES

1. Skubitz, K.M., Grunert, F., Jantschkeff, P., Kuroki, M., Skubitz, A.P.N., "CD66 family Workshop Panel report", 1997, Leucocyte Typing VI, White Cell Differentiation Antigens. Kishimoto, T., et al, Eds., Garland Publishing, Inc., 992-1001.
2. Skubitz, K.M., Micklem, K., Van Der Schoot, E., "CD66 and CD67 cluster

- workshop report", 1995, Leucocyte Typing V, White Cell Differentiation Antigens. Schlossman, S.F., et al., Eds., Oxford University Press, 889-899.
3. Skubitz, K.M., Campbell, K.D., Skubitz, A.P.N., "CD66a, CD66b, CD66c, and CD66d each independently stimulate neutrophils", 1996, J. Leukocyte Biol., 60, 106-117.
 4. Mannoni, P., Janowska-Wieczorek, A., Turner, A.R., Mac Gann, L., Turc, J.M., "Monoclonal antibodies against human granulocytes and myeloid differentiation", 1982, Hum. Immunol., 5, 309-323.
 5. Mannoni, P., Janowska, A., Fromont, P., Weiblen, B., Turner, A.R., Turc, J.M., "Human myeloid differentiation studied by monoclonal antibodies", 1984, Leucocyte Typing I, Bernard, A. et al. Eds., Springer Verlag, 410-419.
 6. Pebusque, M.J., Lopez, M.G., Branch, D., Guilbert, L., Linklater, L., Tabilio, A., Lavezzi, C., Mannoni, P., "Phenotypic analysis of human long-term bone marrow culture cells and derived cell lines", 1987, Leucocyte Typing III, White Cell Differentiation Antigens, McMichael A.J., et al., Eds., Oxford University Press, 636-642.

PRODUCT AVAILABILITY

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For additional information in the USA, call 800-526-7694.

Outside the USA, contact your local Beckman Coulter representative.

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(*) : 20 µL is the quantity of product sufficient to stain

5 x 10⁵ cells in a standard immunofluorescence assay