

For Research Use Only. Not for use in diagnostic procedures.

SPECIFICITY

CD11c (αX integrin subunit / leucocyte surface antigen p150) is a member of the integrin family. Like other leucocyte integrins (CD11a, CD11b, CD11d), CD11c is non-covalently associated with the $\beta 2$ integrin subunit (CD18) (1, 2). CD11c is a transmembrane glycoprotein of 145 – 150 kDa, mainly expressed by monocytes, macrophages and NK cells, and in a lesser extent by granulocytes, dendritic cells and some subsets of T and B cells (3).

The BU15 monoclonal antibody has been assigned to the CD11c cluster of differentiation during the 3rd International Workshop on Human Leucocyte Differentiation Antigens in Oxford, England, in 1986 (WS Code: 256) (4).

REAGENT

IOTest CD11c-PC5 Conjugated Antibody
PN IM3707 – 100 tests – Liquid – 10 µL / test.

Clone	BU15
Isotype	IgG1, mouse
Immunogen	DC from synovial fluid
Hybridoma	NS1/Ag4.1 x Balb/c
Source	Ascites fluid
Purification	Ion exchange or affinity chromatography
Conjugation	R-phycoerythrin-Cyanine 5 (PC5)
Molar Ratio	PC5 / Ig : 0.5 – 1.5
Fluorescence	Excites at 486–580 nm Emits at 660–680 nm

REAGENT CONTENTS

This antibody is provided in phosphate-buffered saline pH 7.4, containing 0.1% sodium azide and 2 mg/mL bovine serum albumin.

APPLICATION

Flow cytometry.

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. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.

3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
4. Do not use antibody beyond the expiration date on the label.
5. Do not expose reagents to strong 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 in the dark. Do not freeze.

REAGENT PREPARATION

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

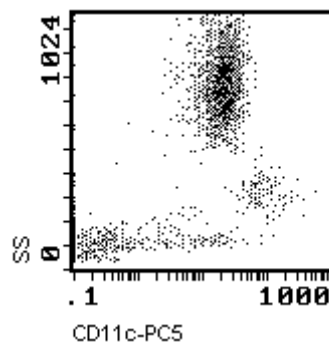
PROCEDURE

This reagent is designed for flow cytometry. A wash is required to yield optimal results. Assay volume: 10 µL per 5×10^5 cells in one test, or per 100 µL whole blood.

EXAMPLE DATA

The graph below is a biparametric representation (Side Scatter *versus* Fluorescence Intensity) of a lyzed normal whole blood sample. Staining is with CD11c-PC5 conjugated antibody. Gate is on all leucocytes. The isotypic control (see catalog for PN) labeling is not shown.

Acquisition is with a COULTER[®] EPICS[®] XL[™] flow cytometer. Analysis is with the Beckman Coulter EXPO 32 software.



SELECTED RESEARCH

REFERENCES

1. Sanchez-Madrid, F., Simon, P., Thompson, S., Springer, T.A., "Mapping of antigenic and functional epitopes on the α - and β - subunits of two related mouse glycoproteins involved in cell interactions, LFA-1 and MAC-1", 1983, J. Exp. Med., 158, 586-602.
2. Van der Vieren, M., Le Trong, H., Wood, C.L., Moore, P.F., St. John, T., Staunton, D.E., Gallatin, W.M., "A novel leukointegrin, α -d- $\beta 2$, binds preferentially to ICAM-3", 1995, Immunity, 3, 683-690.
3. Luk, J., Springer, T.A., "CD11c cluster report", 1995, Leucocyte Typing V, White Cell Differentiation Antigens. Schlossman, S.F., et al., Eds., Oxford University Press, 1590-1592.
4. Cobbold, S., Hale, G., Waldmann, H., "Non-lineage, LFA-1 family, and leukocyte common antigens: New and previously defined clusters", 1987, Leucocyte Typing III, White Cell Differentiation Antigens, McMichael A.J., et al., Eds., Oxford University Press, 788-803.

TRADEMARKS AND PATENTS

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MANUFACTURED BY:

Immunotech SAS,
a Beckman Coulter Company
130, avenue de Lattre de Tassigny
B.P. 177 - 13276 Marseille Cedex 9
France

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

Outside the USA, contact your local Beckman Coulter representative.

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