

**Analyte Specific Reagent.**

Analytical and performance characteristics are not established.

**SPECIFICITY**

The CD11c antigen (integrin alphaX subunit / leucocyte surface antigen p150) is a member of the integrin family. Like other leucocyte alpha chain integrins (CD11a, CD11b, CD11d), CD11c is non-covalently associated with the integrin beta2 subunit (CD18) (1, 2).

CD11c is expressed mainly by monocytes, macrophages and NK (Natural Killer) cells, and to a greater extent by granulocytes, dendritic cells, and certain T and B lymphocyte sub-populations (3, 4).

The monoclonal antibody (mAb) BU15 was assigned to CD11c during the 3<sup>rd</sup> HLDA Workshop on Human Leucocyte Differentiation Antigens in Oxford, England, in 1986 (WS Code: 256, Section M) (5).

**REAGENT**

IOTest CD11c-PC7  
 Conjugated antibody  
 PN A80249 - 100 tests - Liquid - 10 µL/test\*

<b>Clone</b>	BU15
<b>Isotype</b>	IgG1 kappa, Mouse
<b>Immunogen</b>	Synovial fluid dendritic cells
<b>Hybridoma</b>	NS1/Ag4.1 x Balb/c
<b>Source</b>	Ascites fluid
<b>Purification</b>	Ion exchange or affinity chromatography
<b>Conjugation</b>	R Phycoerythrin-Cyanine 7 (PC7)
<b>Molar Ratio</b>	PC7 / Ig : 0.5 - 1.5
<b>Fluorescence</b>	Excites at 488 nm Emits at 770 nm

**REAGENT CONTENTS**

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

**STATEMENTS OF WARNING**

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. 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.

**PRECAUTIONS**

Due to the tandem structure of the fluorochrome, PC7 also emits light at 575 nm. This secondary emission peak varies from lot-to-lot of PC7. Therefore, for multi-color analysis, the compensation matrix should be carefully checked when changing the lot of a PC7-conjugate.

**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-β2, binds preferentially to ICAM-3", 1995, Immunity, 3, 683-690.
3. Kohrgruber, N., Halanek, N., Gröger, M., Winter, D., Rappersberger, K., Schmitt-Egenolf, M., Stingl, G., Maurer, D., "Survival, maturation, and function of CD11c<sup>+</sup> and CD11c<sup>+</sup> peripheral blood dendritic cells are differentially regulated by cytokines", 1999, J. Immunol., 163, 3250-3259.

4. 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.
5. 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.

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(\*) : 10 µL is the quantity of product sufficient to stain 5 x 10<sup>5</sup> cells in a standard immunofluorescence assay

