

# Monoclonal Antibody CD11c

PN IM0712 – Purified – Freeze-dried – 0.2 mg – Clone BU15

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

## SPECIFICITY

The CD11c antigen (integrin  $\alpha$ X 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 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 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

Monoclonal Antibody CD11c  
PN IM0712 – Purified – Freeze-dried

|                     |                                |
|---------------------|--------------------------------|
| <b>CLONE</b>        | BU15                           |
| <b>ISOTYPE</b>      | IgG1                           |
| <b>IMMUNOGEN</b>    | Synovial fluid dendritic cells |
| <b>HYBRIDOMA</b>    | NS1/Ag4.1 x Balb/c             |
| <b>SPECIES</b>      | Mouse                          |
| <b>SOURCE</b>       | ascites fluid                  |
| <b>PURIFICATION</b> | chromatography                 |

## REAGENT CONTENTS

1 mg/ml bovine serum albumin in phosphate buffered saline.

## STATEMENT OF WARNINGS

1. 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.

- Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
- Do not use reagent beyond the expiration date on the vial label.
- Avoid microbial contamination of reagent or erroneous results may occur.
- Use general good laboratory practices when handling this reagent.

## STORAGE CONDITIONS AND STABILITY

This reagent is stable up to the expiration date on the vial label when stored at 2–8°C. The reconstituted form may be stored at -20°C until the expiration date. Aliquoting is suggested to avoid multiple freeze-thaw cycles. The addition of sodium azide at 0.1% (w/v) is recommended for storage of the reconstituted form for up to one month at 2-8°C. Minimize exposure to light and warmth.

## REAGENT PREPARATION

Reconstitute with 1 mL of distilled water. No preservative has been added.

## PROCEDURE

Fluorescent microscope, flow cytometry or immunohistochemistry

## SELECTED RESEARCH REFERENCES

- Sanchez-Madrid, F., Simon, P., Thompson, S., Springer, T.A., "Mapping of antigenic and functional epitopes on the  $\alpha$ - and  $\beta$ -subunits of two related mouse glycoproteins involved in cell interactions, LFA-1 and

MAC-1", 1983, J. Exp. Med., 158, 586-602.

- 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,  $\alpha$ -d- $\beta$ 2, binds preferentially to ICAM-3", 1995, Immunity, 3, 683-690.
- 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.
- 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.
- 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.

For additional information in the USA, call 800-526-7694. Outside the USA, contact your local Beckman Coulter representative. [www.beckmancoulter.com](http://www.beckmancoulter.com)

## TRADEMARKS

Beckman Coulter and the Beckman Coulter logo are trademarks of Beckman Coulter, Inc.

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

©2005 Beckman Coulter, Inc.  
All Rights Reserved

