MONOCLONAL ANTIBODY  CD11c

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Form</th>
<th>Quantity</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>0712</td>
<td>Purified</td>
<td>0.2 mg</td>
<td>Freeze-dried</td>
</tr>
<tr>
<td>1760</td>
<td>Phycoerythrin</td>
<td>100 tests</td>
<td>Liquid 2 ml</td>
</tr>
</tbody>
</table>

Clone  
BU15

Isotype  
IgG1

Immunogen  
Dendritic cells from synovial fluid.

Hybridoma  
Myeloma NS1/Ag 4.1 x Balb/c spleen cells.

Specificity  
The molecular weight of the recognized antigen is 150 kDa.

The CD11c antigen is a member of the diverse family of heterodimeric intercellular and cell-matrix adhesion receptors termed integrins (1).

Several subfamilies exist, each distinguished by a common α chain. A series of structurally related α chains noncovalently linked to the common β chain constitute the members of each family.

The CD11c antigen is the integrin αX subunit noncovalently associated with the leukocyte-restricted integrin β2 (CD18). It has been reported as the complement receptor type 4 (CR4).

The CD11c antigen is expressed by tissue macrophages in most types of tissues, by monocytes and weakly expressed by granulocytes (2). It is also present on NK cells, activated T and B lymphocytes and dendritic cells.

CD11c expression has been reported in B-cell chronic lymphocytic leukemia and on hairy leukemia cells (3-5).

The CD11c antigen is involved in the adherence of PMN and monocytes to endothelium and in the binding of IC3b opsonized particles.

Applications  
Flow cytometry.
Fluorescent microscopy.
Immunohistochemistry.

Buffer  
Freeze-dried forms: 1 mg/ml bovine serum albumin in phosphate buffered saline.

Liquid forms: 2 mg/ml bovine serum albumin in phosphate buffered saline containing 0.1% sodium azide.

May 17, 1995
Reconstitution and Storage
The freeze-dried form may be stored at 2-8°C until the expiration date. Reconstitute with 1 ml of distilled water. No preservative has been added. 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.

The conjugated forms should not be frozen and should be stored in the dark at 2-8°C.

Recommended Procedures
Fluorescent microscopy or flow cytometry:
Liquid form: 20 μl/5x10^5 cells/test or 100 μl whole blood
Freeze-dried form: 2 μg/5x10^5 cells/test

Immunohistochemistry:
Working dilution: 1:50 to 1:100.
This antibody is only suitable on acetone fixed frozen sections or cell smears.

References


