CD11b (D12)

**FORMS**

<table>
<thead>
<tr>
<th>Form</th>
<th>Catalog number</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE</td>
<td>340712</td>
</tr>
<tr>
<td>APC</td>
<td>340936</td>
</tr>
<tr>
<td>BV605</td>
<td>663191</td>
</tr>
</tbody>
</table>

**DESCRIPTION**

**Specificity**

The CD11b antibody recognizes a human leucocyte antigen that is the C3bi complement receptor (CR3).\(^1\) CD11b is specific for the 165-kilodalton (kDa) \(\alpha\) subunit of the CD11b/CD18 antigen heterodimer.\(^2\) The 95-kDa CD18 antigen, the \(\beta\) chain of leucocyte function–associated antigen-1 (LFA-1\(\beta\)), is common to the CD11a/CD18 (LFA-1) and CD11c/CD18 antigen heterodimers.\(^2\)

**Antigen distribution**

The CD11b antigen is present on approximately 30% of peripheral blood lymphocytes, including most natural killer (NK) lymphocytes and a subset of T lymphocytes.\(^3\) It is also present on mature neutrophils and monocytes.\(^4\) CD11b\(^+\) lymphocytes are 5% to 50% CD8\(^+\). These CD8\(^+\)CD11b\(^+\) lymphocytes are associated with suppression, as measured by their effect on the proliferative response of CD4\(^+\) lymphocytes to tetanus toxoid.\(^4\)

**Clone**

The CD11b antibody, clone D12,\(^5\) is derived from the hybridization of NS-1 mouse myeloma cells with spleen cells isolated from BALB/c mice immunized with peripheral blood T lymphocytes.

**Composition**

The CD11b antibody is composed of mouse IgG\(\text{_{2a}}\) heavy chains and kappa light chains.

**Product configuration**

The following are supplied in buffer containing a stabilizer and a preservative.

<table>
<thead>
<tr>
<th>Form</th>
<th>Number of tests</th>
<th>Volume per test (µL)(^a)</th>
<th>Amount provided (µg)</th>
<th>Total volume (mL)</th>
<th>Concentration (µg/mL)</th>
<th>Stabilizer</th>
<th>Preservative</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE</td>
<td>100</td>
<td>20</td>
<td>100</td>
<td>2.0</td>
<td>50</td>
<td>Gelatin</td>
<td>0.1% Sodium azide</td>
</tr>
<tr>
<td>APC</td>
<td>100</td>
<td>5</td>
<td>25</td>
<td>0.5</td>
<td>50</td>
<td>Gelatin</td>
<td>0.1% Sodium azide</td>
</tr>
<tr>
<td>BV605(^b)</td>
<td>100</td>
<td>5</td>
<td>100</td>
<td>0.5</td>
<td>200</td>
<td>BSA</td>
<td>0.09% Sodium azide</td>
</tr>
</tbody>
</table>

\(^a\) Volume required to stain 10\(^6\) cells.
\(^b\) BD Horizon Brilliant™ Violet 605

**CAUTION** Binding of this CD11b antibody depends on the presence of Ca\(^++\). EDTA or ACD as anticoagulant might affect binding. Using heparin as an anticoagulant or removal of the anticoagulant is recommended.\(^6\)\(^7\)

**Analyte Specific Reagent. Analytical and performance characteristics are not established.**
Purity

PE, APC: ≤20% free fluorophore at bottling, as measured by size-exclusion chromatography (SEC)

BV605: ≤25% free fluorophore, as measured by ion-exchange chromatography (IEC)

HANDLING AND STORAGE

Store vials at 2°C–8°C. Conjugated forms should not be frozen. Protect from exposure to light. Each reagent is stable until the expiration date shown on the bottle label when stored as directed.

WARNING

All biological specimens and materials coming in contact with them are considered biohazards. Handle as if capable of transmitting infection8,9 and dispose of with proper precautions in accordance with federal, state, and local regulations. Never pipette by mouth. Wear suitable protective clothing, eyewear, and gloves.

Hand over the Safety Data Sheet.

CHARACTERIZATION

To ensure consistently high-quality reagents, each lot of antibody is tested for conformance with characteristics of a standard reagent.

WARRANTY

Unless otherwise indicated in any applicable BD general conditions of sale for non-US customers, the following warranty applies to the purchase of these products.

THE PRODUCTS SOLD HEREUNDER ARE WARRANTED ONLY TO CONFORM TO THE QUANTITY AND CONTENTS STATED ON THE LABEL OR IN THE PRODUCT LABELING AT THE TIME OF DELIVERY TO THE CUSTOMER. BD DISCLAIMS HEREBY ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE AND NONINFRINGEMENT. BD’S SOLE LIABILITY IS LIMITED TO EITHER REPLACEMENT OF THE PRODUCTS OR REFUND OF THE PURCHASE PRICE. BD IS NOT LIABLE FOR PROPERTY DAMAGE OR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING PERSONAL INJURY, OR ECONOMIC LOSS, CAUSED BY THE PRODUCT.

REFERENCES

1. Ross GD, Cain JA, Lachmann PJ. Membrane complement receptor type three (CR3) has lectin-like properties analogous to bovine conglutinin and functions as a receptor for zymosan and rabbit erythrocytes as well as a receptor for c3b. J Immunol. 1985;134:3307.


PATENTS AND TRADEMARKS

BV605 is covered by one or more of the following US patents: 8,110,673; 8,158,444; 8,227,187; 8,455,613; 8,575,303; or 8,354,239.

© 2018 BD. BD, the BD Logo and all other trademarks are property of Becton, Dickinson and Company.