**Anti–Bcl-2 (100)**

**Form**

<table>
<thead>
<tr>
<th>Catalog number</th>
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<tbody>
<tr>
<td>FITC 340575</td>
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<tr>
<td>PE 340576</td>
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</table>

Product availability varies by region. Contact BD Biosciences Customer Support or your local sales representative for information.

**RESEARCH APPLICATIONS**

Research applications include:

- Studies of regulation of apoptosis\(^1,2\)
- Studies of B-cell malignancies\(^3-5\)
- Studies of chemotherapeutics\(^6\)
- Studies of follicular t(14;18) chromosomal translocation\(^3,7,9\)

**DESCRIPTION**

**Specificity**

The Anti–Bcl-2 antibody recognizes a 26-kilodalton (kDa) protein encoded by the 230 kb bcl-2 protooncogene.\(^7,8\) The protein is a regulator of the apoptotic process, and elevated levels can provide resistance to cell death.\(^1,2\) The bcl-2 protein is expressed in the interior of cells, frequently localized to the mitochondrial membrane.\(^9,10\)

**Antigen distribution**

The Anti–Bcl-2 antigen is expressed on resting T cells and monocytes but is not expressed at appreciable levels in mature granulocytes. The t(14;18) translocation seen in follicle center lymphomas leads to over-expression of this protein. Over-expression is frequently seen in other neoplasms.\(^3,11\)

**Clone**

The Anti–Bcl-2 antibody, clone 100, is derived from the hybridization of Sp2/0-Ag14 mouse myeloma cells with spleen cells isolated from BALB/c mice immunized with the bcl-2\(\alpha\) peptide (amino acids 41-54).\(^7\)

**Composition**

The Anti–Bcl-2 antibody is composed of mouse IgG1 heavy chains and kappa light chains.

**Product configuration**

The following are supplied in phosphate buffered saline (PBS) 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>FITC</td>
<td>50</td>
<td>20</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>Gelatin</td>
<td>0.1% Sodium azide</td>
</tr>
<tr>
<td>PE</td>
<td>50</td>
<td>20</td>
<td>1</td>
<td>1</td>
<td>1</td>
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</tr>
</tbody>
</table>

\(a\) Volume required to stain 10⁶ cells.

**CAUTION** Cells must be permeabilized before staining with Anti-bcl-2, clone 100, reagents. We recommend using BD FACSTM lysing solution followed by BD FACSTM Permeabilizing Solution 2 and then a PBS/protein wash. Some other permeabilizing methods do not work as well.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.
PROCEDURE
Visit our website (bdbiosciences.com) or contact your local BD representative for the lyse/wash protocol for direct immunofluorescence.

Flow Cytometric Method
Lyse 50 µL whole blood with 0.5 mL BD FACS lysing solution (Cat. No. 349202) for 10 minutes. Centrifuge and remove the supernatant. Add 0.5 mL BD FACS Permeabilizing Solution 2 (Cat. No. 347692) and wait for 10 minutes. Wash with 0.5% bovine serum albumin (BSA) in 1X PBS and 0.1% sodium azide. Add 20 µL of Anti–Bcl-2 reagent. Mix thoroughly and incubate for 30 minutes in the dark at room temperature (20°–25°C). Wash with 1X PBS with 0.1% sodium azide, add 0.5 mL of PBS, mix thoroughly, and analyze. If samples are not to be analyzed immediately, mix thoroughly just prior to analysis. Refer to the BD FACS Lysing Solution package insert.

REPRESENTATIVE DATA
Flow cytometric analysis was performed on lysed and permeabilized whole blood stained with the indicated conjugated antibody. Laser excitation was at 488 nm. Representative data analyzed with a BD FACS™ brand flow cytometer is shown in the following plots.

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 infection12,13 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.

CHARACTERIZATION
To ensure consistently high-quality reagents, each lot of antibody is tested for conformance with characteristics of a standard reagent. Representative flow cytometric data is included in this data sheet.

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


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