CD79b (SN8)

FORMS

<table>
<thead>
<tr>
<th>Form</th>
<th>Catalog number</th>
</tr>
</thead>
<tbody>
<tr>
<td>FITC</td>
<td>335815</td>
</tr>
<tr>
<td>PE</td>
<td>335816</td>
</tr>
<tr>
<td>PerCP-Cy5.5</td>
<td>655432</td>
</tr>
<tr>
<td>APC</td>
<td>335817</td>
</tr>
<tr>
<td>APC-R700</td>
<td>657703</td>
</tr>
</tbody>
</table>

DESCRIPTION

Specificity

The CD79b antibody recognizes an epitope on the extracellular domain of a 36–40 kilodalton (kDa) type I membrane glycoprotein. Immunoglobulin (Ig) antigen receptors are composed of a non-covalently associated complex of Ig and two other proteins, Igα and Igβ, which have been designated as CD79a and CD79b, respectively.

Antigen distribution

The CD79b antigen is expressed on surface-Ig (sIg)–positive lymphocytes and B-cell lines. It can also be found in the cytoplasm of sIg-negative cells, including most terminal deoxynucleotidyl transferase (TdT)-positive early pre-B and all cytoplasmic μ-positive pre-B–cell lines. The vast majority of chronic lymphocytic leukemia (CLL) cells are CD79b– while cells from other B-cell disorders usually express high levels of the CD79b antigen.

Clone

The CD79b antibody, clone SN8 (3A2-2E7-1F5), is derived from the hybridization of NS-1 mouse myeloma cells with spleen cells isolated from BALB/c mice immunized with cell membrane preparations from B-prolymphocytic leukemia (B-PLL) cells.

Composition

The CD79b 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>25</td>
<td>1.0</td>
<td>25</td>
<td>Gelatin</td>
<td>0.1% Sodium azide</td>
</tr>
<tr>
<td>PE</td>
<td>50</td>
<td>20</td>
<td>25</td>
<td>1.0</td>
<td>25</td>
<td>Gelatin</td>
<td>0.1% Sodium azide</td>
</tr>
<tr>
<td>PerCP-Cy5.5</td>
<td>50</td>
<td>20</td>
<td>25</td>
<td>1.0</td>
<td>13</td>
<td>Gelatin</td>
<td>0.1% Sodium azide</td>
</tr>
<tr>
<td>APC</td>
<td>100</td>
<td>5</td>
<td>50</td>
<td>0.5</td>
<td>100</td>
<td>Gelatin</td>
<td>0.1% Sodium azide</td>
</tr>
<tr>
<td>APC-R700</td>
<td>100</td>
<td>5</td>
<td>25</td>
<td>0.5</td>
<td>50</td>
<td>BSA</td>
<td>ProClin® 300</td>
</tr>
</tbody>
</table>

a. Volume required to stain 10^6 cells.

b. BD Horizon™ APC-R700

Analyte Specific Reagent. Analytical and performance characteristics are not established.
CAUTION  Some APC-R700 conjugates show changes in their emission spectra with prolonged exposure to paraformaldehyde or light. For overnight storage of stained cells, wash and resuspend in buffer without paraformaldehyde after 1 hour of fixation.

NOTE  As a consideration for instrument selection, the APC-R700 conjugate is read off the red laser using an appropriate longpass (LP) mirror and bandpass (BP) filter. (For your information, the technical information for this data sheet was generated on a BD FACS™ brand flow cytometer using a 640-nm red laser, a 685 LP mirror, and a 712/21 BP filter.)

Purity
FITC: ≤5% free fluorophore at bottling, as measured by size-exclusion chromatography (SEC)
PE, PerCP-Cy5.5, APC, APC-R700: ≤20% free fluorophore at bottling, as measured by SEC

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 infection⁴,⁵ 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.

Some reagents are bottled with ProClin 300, and contain 0.003% of a mixture of CMIT/MIT (3:1), CAS number 55965-84-9.

Charakterization
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

**PATENTS AND TRADEMARKS**

Cy™ is a trademark of GE Healthcare. This product is subject to proprietary rights of GE Healthcare and Carnegie Mellon University, and is made and sold under license from GE Healthcare. This product is licensed for sale only for in vitro diagnostics. It is **not** licensed for any other use. If you require any additional license to use this product and do not have one, return this material, unopened, to BD Biosciences, 2350 Qume Drive, San Jose, CA 95131, and any money paid for the material will be refunded.

ProClin is a registered trademark of Rohm and Haas Company.

BD, BD Logo and all other trademarks are property of Becton, Dickinson and Company. © 2015 BD