CD25 (2A3)

FORMS

<table>
<thead>
<tr>
<th>Form</th>
<th>Catalog number</th>
</tr>
</thead>
<tbody>
<tr>
<td>FITC</td>
<td>340694</td>
</tr>
<tr>
<td>PE</td>
<td>341010</td>
</tr>
<tr>
<td>PE-Cy7</td>
<td>325807</td>
</tr>
<tr>
<td>APC</td>
<td>340938</td>
</tr>
<tr>
<td>APC-R700</td>
<td>659117</td>
</tr>
</tbody>
</table>

DESCRIPTION

Specificity

The CD25 antibody recognizes a 55-kilodalton (kDa) type I integral membrane glycoprotein. The CD25 antigen is also known as the human low-affinity interleukin-2 receptor α chain (IL-2Rα) and the Tac antigen.

Antigen distribution

The CD25 antigen is present on a subset of peripheral blood lymphocytes. Antigen density increases on phytohemagglutinin (PHA)-, concanavalin A (Con A)-, and CD3-activated T lymphocytes; T lymphocytes from mixed lymphocyte cultures; and human T-lymphocyte leukemia virus (HTLV)-infected T-lymphocyte leukemia lines, for example, HUT-102. Recombinant IL-2 blocks the binding of CD25 to PHA-activated T lymphocytes. CD4+CD25+ regulatory T cells might directly regulate the function of responsive T cells.

Clone

The CD25 antibody, clone 2A3, is derived from the hybridization of NS-1 mouse myeloma cells with spleen cells isolated from BALB/c mice immunized with PHA-activated human T lymphocytes.

Composition

The CD25 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)</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>100</td>
<td>20</td>
<td>20</td>
<td>2.0</td>
<td>10</td>
<td>Gelatin</td>
<td>0.1% Sodium azide</td>
</tr>
<tr>
<td>PE</td>
<td>50</td>
<td>20</td>
<td>3</td>
<td>1.0</td>
<td>3</td>
<td>Gelatin</td>
<td>0.1% Sodium azide</td>
</tr>
<tr>
<td>PE-Cy7</td>
<td>100</td>
<td>5</td>
<td>6.5</td>
<td>0.5</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>6</td>
<td>0.5</td>
<td>12</td>
<td>Gelatin</td>
<td>0.1% Sodium azide</td>
</tr>
<tr>
<td>APC-R700b</td>
<td>100</td>
<td>5</td>
<td>6.25</td>
<td>0.5</td>
<td>12.5</td>
<td>BSA</td>
<td>ProClin® 300</td>
</tr>
</tbody>
</table>

*a. Volume required to stain 10⁶ cells.
  b. BD Horizon™ APC-R700

Analyte Specific Reagent. Analytical and performance characteristics are not established.
CAUTION Some PE-Cy7 and 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, PE-Cy7, 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 infection 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.

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


**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