**CD24 (ML5)**

### FORMS

<table>
<thead>
<tr>
<th>Form</th>
<th>Catalog number</th>
</tr>
</thead>
<tbody>
<tr>
<td>FITC</td>
<td>655154</td>
</tr>
<tr>
<td>APC-H7</td>
<td>656150</td>
</tr>
<tr>
<td>BV605</td>
<td>657715</td>
</tr>
</tbody>
</table>

### DESCRIPTION

**Specificity**

The CD24 antibody reacts specifically with a 35–45 kilodalton (kDa) highly glycosylated sialoprotein anchored to the cell surface by glycosylphosphatidylinositol (GPI). The CD24 antigen is also known as heat stable antigen (HSA) homologue, BA-1, and small cell lung carcinoma cluster-4 antigen.

**Antigen distribution**

The CD24 antigen is expressed on B cells and most B-cell lines, but it is not expressed on plasma cells. The CD24 antigen is also expressed on neutrophils, follicular dendritic cells, and epithelial cells. The CD24 antigen may play a role in the regulation of B-cell proliferation and activation, and cross-linking of CD24 induces a calcium flux and oxidative burst in granulocytes.

**Clone**

The CD24 antibody, clone ML5, is derived from the hybridization of mouse myeloma cells with spleen cells isolated from immunized mice.

**Composition**

The CD24 antibody is composed of mouse IgG2a 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>
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<tbody>
<tr>
<td>FITC</td>
<td>50</td>
<td>20</td>
<td>200</td>
<td>1</td>
<td>200</td>
<td>BSA</td>
<td>0.09% Sodium azide</td>
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<tr>
<td>APC-H7</td>
<td>100</td>
<td>5</td>
<td>100</td>
<td>0.5</td>
<td>200</td>
<td>BSA</td>
<td>ProClin® 300</td>
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<tr>
<td>BV605b</td>
<td>100</td>
<td>5</td>
<td>100</td>
<td>0.5</td>
<td>200</td>
<td>BSA</td>
<td>ProClin 300</td>
</tr>
</tbody>
</table>

*a. Volume required to stain 10⁶ cells.

CAUTION** Some APC-H7 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.

**CAUTION** Prolonged exposure of cells to paraformaldehyde can lead to increased autofluorescence in the violet channels. For overnight storage of stained cells, wash and resuspend in buffer without paraformaldehyde after 1 hour of fixation.

*Analyte Specific Reagent. Analytical and performance characteristics are not established.
CAUTION For optimal results, use BD Horizon™ Brilliant Stain Buffer any time two or more BD Horizon Brilliant™ reagents are used in the same multicolor staining cocktail.

NOTE As a consideration for instrument selection, the BV605 conjugate is read off the violet 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 405-nm violet laser, a 570 LP mirror, and a 605/40 BP filter.)

Purity

FITC: ≤5% free fluorophore at bottling, as measured by size-exclusion chromatography (SEC)

APC-H7: ≤20% free fluorophore at bottling, as measured by SEC

BV605: ≤25% free fluorophore at bottling, 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 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

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REFERENCES


### PATENTS AND TRADEMARKS

BD Horizon Brilliant Violet 605 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.

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