Anti-TdT (E17-1519)

**FORMS**

<table>
<thead>
<tr>
<th>Form</th>
<th>Catalog number</th>
</tr>
</thead>
<tbody>
<tr>
<td>FITC</td>
<td>347208</td>
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<tr>
<td>PE</td>
<td>347209</td>
</tr>
<tr>
<td>APC</td>
<td>347210</td>
</tr>
</tbody>
</table>

**DESCRIPTION**

**Specificity**

The Anti-TdT (terminal-deoxynucleotidyl transferase) antibody recognizes a 60-kilodalton (kDa) polymerase, a nuclear enzyme that catalyzes the template-independent addition of nucleotides to single-stranded DNA primers.\(^1\) It has been reported that TdT is involved in the regulation or translocation or both of DNA and gene rearrangement during normal T and B-cell development.\(^2,3\)

**Antigen Distribution**

TdT is present in nuclei of immature T and B lymphocytes found in normal thymus and bone marrow.\(^4\) Some neoplastic cells of acute lymphoblastic lymphoma/leukemia have been shown to have high TdT activity.\(^5-7\) Mature lymphocytes from normal peripheral blood usually do not contain the enzyme.

**Clone**

The Anti-TdT antibody, clone E17-1519, is derived from the hybridization of FO mouse myeloma cells with spleen cells isolated from BALB/c mice immunized with purified TdT enzyme.

**Composition**

The Anti-TdT antibody is composed of mouse IgG\(_1\) 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>
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<tbody>
<tr>
<td>FITC</td>
<td>50</td>
<td>20</td>
<td>12.5</td>
<td>1.0</td>
<td>12.5</td>
<td>Gelatin</td>
<td>0.1% Sodium azide</td>
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<tr>
<td>PE</td>
<td>50</td>
<td>20</td>
<td>6.0</td>
<td>1.0</td>
<td>6.0</td>
<td>Gelatin</td>
<td>0.1% Sodium azide</td>
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<tr>
<td>APC</td>
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<td>5</td>
<td>12.5</td>
<td>0.5</td>
<td>25</td>
<td>Gelatin</td>
<td>0.1% Sodium azide</td>
</tr>
</tbody>
</table>

\(^a\) Volume required to stain 10\(^6\) cells.

**Purity**

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

Analyte Specific Reagent. Analytical and performance characteristics are not established.
PE, APC: ≤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 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.

**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**


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