# Anti–ZAP-70 (1E7.2)

## FORMS

<table>
<thead>
<tr>
<th>Form</th>
<th>Catalog number</th>
</tr>
</thead>
<tbody>
<tr>
<td>FITC</td>
<td>344934</td>
</tr>
<tr>
<td>PE</td>
<td>344636</td>
</tr>
</tbody>
</table>

## DESCRIPTION

### Specificity

The Anti–ZAP-70 antibody recognizes a 70-kilodalton (kDa) protein kinase, a member of the Syk family of protein tyrosine kinases that is associated with the zeta chain of the CD3/TCR complex. Anti–ZAP-70 plays a crucial role in T-cell signal transduction\(^1\-^3\) and thymocyte development.\(^4\)

### Antigen distribution

ZAP-70 is normally expressed in T and natural killer (NK) cells and recently has been reported to be expressed in some chronic lymphocytic leukemia (CLL) and to be correlated with the immunoglobulin-variable region mutation status. ZAP-70 expression, thus, can be a surrogate for the IgVH mutations.\(^5\-^7\)

### Clone

The Anti–ZAP-70 antibody, clone 1E7.2\(^*\), is generated from the fusion of AG8.553 mouse myeloma cells with spleen cells from BALB/c mice immunized with a ZAP-70 peptide 282-307 conjugated to KLH.\(^3\)

### Composition

The Anti–ZAP-70 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>
</tr>
</thead>
<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>
</tr>
<tr>
<td>PE</td>
<td>50</td>
<td>20</td>
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<td>12.5</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)

PE: ≤20% free fluorophore at bottling, as measured by SEC

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Analyte Specific Reagent. Analytical and performance characteristics are not established.
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.

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.

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REFERENCES


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