Anti-Human Myeloperoxidase (5B8)

DESCRIPTION

Specificity
The Anti-Human Myeloperoxidase (MPO) antibody recognizes intracellular MPO, a hemoprotein consisting of two molecular subunits, 60 kilodaltons (kDa) and 12 kDa. MPO is a major enzyme involved in the inflammatory responses of polymorphonuclear leukocytes. It catalyzes the production of hypochlorous acid, a potent microbicidal agent.  

Antigen distribution
MPO is a lysosomal enzyme localized in the azurophilic granules of mature granulocytes and is present at low density in circulating monocytes. Detectable MPO is also present in myeloblasts from some cases of acute myeloid leukemia.

Clone
The Anti-Human Myeloperoxidase antibody, clone 5B8, is derived from the hybridization of X63.Ag8-653 mouse myeloma cells with spleen cells isolated from BALB/c mice immunized with commercially purified MPO.

Composition
The Anti-Human Myeloperoxidase 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>50</td>
<td>20</td>
<td>6.3</td>
<td>1.0</td>
<td>6.3</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>
</tbody>
</table>

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

PE: ≤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.

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

All biological specimens and materials coming in contact with them are considered biohazards. Handle as if capable of transmitting infection\(^6,7\) 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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