**BD FastImmune™ Anti-Human IL-13 (JES10-5A2)**

**Form**
- PE

**Catalog number**
- 340508

Product availability varies by region. Contact BD Biosciences Customer Support or your local sales representative for information.

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**RESEARCH APPLICATIONS**

Research applications include studies of:
- B-lymphocyte, natural killer (NK), and monocyte-mediated immune function
- Immunoregulation
- Regulation of inflammatory response

**DESCRIPTION**

**Specificity**
The Anti-Human Interleukin 13 (Anti-Hu–IL-13) antibody recognizes a nonglycosylated protein of 132 amino acids with a molecular weight of 10 kilodaltons (kDa).

**Antigen distribution**
The IL-13 antibody is a pleiotropic cytokine that has important anti-inflammatory and immunoregulatory activities. IL-13 augments the expression of interleukin-1 receptor antagonist (IL-1RA) transcripts in monocytes and polymorphonuclear leucocytes (PMNs). It is secreted by activated T lymphocytes, T-cell clones, mast cells, and basophils. IL-13 is produced by both CD45RA+ and CD45RO+ T lymphocytes. IL-13 shares many functional properties with IL-4. It mediates diverse biological effects on monocytes, B lymphocytes, NK lymphocytes, neutrophils, and endothelial cells.

**Clone**
The Anti-Hu–IL-13 antibody, clone JES10-5A2, is derived from the mouse myeloma P3X63Ag8 fused with splenocytes from Lewis rats immunized with recombinant human IL-13 expressed in mammalian cells.

**Composition**
The Anti-Hu–IL-13 antibody is composed of rat IgG1 heavy chains and kappa light chains.

**Product configuration**
The following is 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>PE</td>
<td>50</td>
<td>20</td>
<td>3.2</td>
<td>1.0</td>
<td>3.2</td>
<td>Gelatin</td>
<td>0.1% Sodium azide</td>
</tr>
</tbody>
</table>

a. Volume required to stain 10^6 cells.

**PROCEDURE**

Visit our website (bdbiosciences.com) or contact your local BD representative for the complete activation and staining protocol, Intracellular Staining Procedure.

**Abbreviated Intracellular Staining Procedure:** After surface staining activated whole blood with fluorescent-conjugated monoclonal antibodies, lyse the red blood cells by

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adding 2 mL of 1X BD FACSTM lysing solution (Cat. No. 349202). Vortex gently and incubate 5 to 10 minutes at room temperature. Centrifuge at 500 x g for 5 minutes; remove the supernatant. Add 500 µL of 1X BD FACSTM Permeabilizing Solution 2 (Cat. No. 347692). Vortex and incubate for 10 minutes at room temperature in the dark. Wash by adding PBS containing 0.5% bovine serum albumin (BSA) and 0.1% sodium azide (NaN3), and centrifuge for 5 minutes. Add 20 µL of fluorescent-conjugated intracellular antibodies. Vortex and incubate for 30 minutes at room temperature in the dark. Repeat wash step. Resuspend cells in 1% paraformaldehyde in PBS.

**REPRESENTATIVE DATA**

Flow cytometric analysis was performed on activated lysed whole blood with a gate set on the lymphocyte population in FSC/SSC after setting threshold in FL3 during acquisition. Laser excitation was at 488 nm.

**Figure 1** Four-hour PMA + ionomycin–activated lysed whole blood analyzed with a BD FACSTM brand flow cytometer

**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 infection14,15 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. Representative flow cytometric data is included in this data sheet.

**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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