Anti–TCRγ/δ-1 (11F2)

**Monoclonal Antibodies**
**Detecting**
**Human**
**Antigens**

<table>
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<tr>
<th>Form</th>
<th>Catalog number</th>
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<td>PE-Cy7</td>
<td>655410</td>
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<tr>
<td>APC-R700</td>
<td>657706</td>
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</table>

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

**RESEARCH APPLICATIONS**

Research applications include:
- Structural studies of the T-cell antigen receptor (TCR) complex
- Studies of non–major histocompatibility complex (MHC)-restricted cytotoxicity
- Investigation into autoimmunity
- Examination of the immune response to mycobacteria
- Research on the inflammatory response

**DESCRIPTION**

**Specificity**

The Anti–TCRγ/δ-1 antibody reacts with a framework epitope of the γδ TCR. The γδ TCR is a heterodimeric glycoprotein that is noncovalently associated with the CD3 antigen. The γ and δ TCR chains are composed of constant and variable regions, each encoded by distinct gene segments. The γ chain forms either disulfide-linked or non–disulfide-linked heterodimers with the δ subunit.

**Antigen distribution**

The Anti–TCRγ/δ-1 antigen is present on a minor subset of T lymphocytes in peripheral blood, thymus, spleen, and lymph node. γδ TCR-positive T lymphocytes comprise 1% to 9% of normal peripheral blood lymphocytes and less than 2% of normal thymocytes.

**Clone**

The Anti–TCRγ/δ-1 antibody, clone 11F2, is derived from the hybridization of Sp2/0 mouse myeloma cells with spleen cells isolated from BALB/c mice immunized with a Sepharose® bead/CD3/γδ TCR complex. Anti–TCRγ/δ-1 is mitogenic for γδ-TCR–bearing T lymphocytes.

**Composition**

The Anti–TCRγ/δ-1 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>
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<td>0.1% Sodium azide</td>
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</table>

For Research Use Only. Not for use in diagnostic or therapeutic procedures.
CAUTION Some PE-Cy7 and APC-R700 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.

PROCEDURE

Visit our website (bdbiosciences.com) or contact your local BD representative for the lyse/wash protocol for direct immunofluorescence and the protocol for indirect immunofluorescence.

REPRESENTATIVE DATA

Flow cytometric analysis was performed on whole blood stained with the indicated conjugated antibody. Laser excitation was at 488 nm or 640 nm.

The APC-R700 conjugate is read off the red laser (640 nm) using a 685 longpass mirror with a 712/21 bandpass filter. Representative data analyzed with a BD FACS™ brand flow cytometer is shown in the following plots.

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.

Warning

H317 May cause an allergic skin reaction.

Wear protective gloves/eye protection. Wear protective clothing. Avoid breathing mist/vapours/spray. If skin irritation or rash occurs: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. Dispose of contents/container in accordance with local/regional/national/international regulations.

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a. Volume required to stain 10⁶ cells.
b. BD Horizon™ APC-R700.
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.

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