Rat Anti-Mouse CD335 (NKp46)

Catalog No. | Form | Amount | Excitation | Peak emission
---|---|---|---|---
A14752 | FITC | 0.05 mL (25 μg) | 488 nm | 519 nm
A14762 | PE | 0.125 mL (25 μg) | 496 nm | 578 nm

**Product description**

The Rat anti-Mouse CD335 (NKp46) Monoclonal Antibody (mAb) recognizes mouse CD335, a member of the natural cytotoxicity receptor (NCR) family. CD335 is a glycoprotein with 2 Ig-like domains and a short cytoplasmic tail. Expression of CD335 is unique to NK cells (including immature NK cells, defined as DX5–CD3–), and allows discrimination between NKT cells and NK cells (NKp46+, CD3–). Furthermore, unlike many NK markers which also stain NKT cells, staining with the Rat anti-Mouse CD335 (NKp46) mAb is not strain specific. Staining has been shown on C57BL/6, SJL, CBA/CA, and BALB/c strains. CD335 has been shown to play a role in NK cell-mediated lysis of several tumor and pathogen-infected cell lines.

**Product specifications**

- **Clonality:** Monoclonal
- **Host/Class:** Rat IgG
- **Reactivity:** Mouse CD335 (NKp46)
- **Alternate names:** NKp46
- **Sequence identity:** Mouse
- **Clone/PAD:** 29A1.4
- **Isotype:** IgG2a
- **Lot:** See product label

**Product applications**

Applications reported for the Rat anti-Mouse CD335 (NKp46) mAb include flow cytometry, and in vitro NK cell activation. Because conditions may vary, it is recommended that each investigator determine the optimal amount of antibody to be used for each application.

**Note:** The Rat anti-Mouse CD335 (NKp46) Monoclonal Antibody does not deplete NK cells in vivo.

**Stability**

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

**Storage and handling**

Store reagents at 2° to 8°C. If the reagent is being diluted, it is recommended that only the quantity to be used within one week be diluted. Cells should be analyzed within 18 hours of staining for best results.

Avoid light exposure with fluorochrome-conjugated antibodies. Use dim light during handling, incubation with cells, and prior to analysis.

**Storage buffer**

An aqueous buffer with 0.09% sodium azide, which may contain carrier protein/stabilizer.

**Caution:** Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Properly dispose of solutions containing sodium azide.
**Product documentation**

To obtain a Certificate of Analysis or Safety Data Sheets (SDSs), visit [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support).

**Related products**

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<thead>
<tr>
<th>Product name</th>
<th>Quantity</th>
<th>Catalog no.</th>
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<tbody>
<tr>
<td>AbC™ Anti-Mouse Bead Kit</td>
<td>1 kit</td>
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<td>AbC™ anti-Rat/Hamster Bead Kit</td>
<td>1 kit</td>
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<td>Protein A Agarose</td>
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<td>Recombinant Protein G [rProtein G] Agarose</td>
<td>5 mL</td>
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**Explanation of symbols**

- **HEX**: Catalogue Number
- **LOT**: Lot code
- **BIS**: Research Use Only
- **IVD**: In vitro diagnostic medical device
- **T**: Use by
- **BC**: Manufacturer
- **REP**: European Community authorised representative?
- **[ ]**: Without, does not contain
- **[+]**: With, contains
- **!**: Protect from light
- **(!)**: Directs the user to consult instructions for use (IFU), accompanying the product.

**Limited product warranty**

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies’ General Terms and Conditions of Sale found on Life Technologies’ website at [www.lifetechnologies.com/termsandconditions](http://www.lifetechnologies.com/termsandconditions). If you have any questions, please contact Life Technologies at [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support).

**Note:** All flow cytometric data shown may not necessarily have been generated using the enclosed lot of reagent. For this reason, and due to differences in flow cytometers and cytometer settings, results may vary from those illustrated above. It is suggested that investigators titrate reagents to determine optimal conditions for use in their systems.

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**Figure 1.** Two-color analysis of CD335 (NKp46) expression on mouse splenocytes.

Staining of BALB/c splenocytes with an anti-Mouse CD49b-PE antibody and 0.5 μg of a rat IgG2a K-FITC isotype control (left), or 0.5 μg of Rat anti-Mouse CD335 (NKp46)-FITC Monoclonal Antibody (Cat. no. A14752) (right). Total viable cells were used for analysis.

**Figure 2.** Two-color analysis of CD335 (NKp46) expression on mouse splenocytes.

Staining of C57BL/6 splenocytes with an anti-Mouse CD3e-FITC antibody and 0.25 μg of a rat IgG2a K-PE isotype control (left) or 0.25 μg of Rat anti-Mouse CD335 (NKp46)-PE Monoclonal Antibody (Cat. no. A14762) (right). Total viable cells were used for analysis.

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