PE Rat Anti-Mouse CD335 (NKp46)

Product Information

Material Number: 560757
Alternate Name: NKp46; Ar1; Ly94; Lymphocyte antigen 94; Mar1; MAR-1; Mouse activating rece
Size: 0.1 mg
Concentration: 0.2 mg/ml
Clone: 29A1.4
Isotype: Rat IgG2a, κ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The monoclonal antibody 29A1.4 specifically binds to mouse CD335, also known as NKp46. NKp46 is a 46 kDa type I transmembrane glycoprotein that is a member of the natural cytotoxicity receptor (NCR) family and immunoglobulin superfamily. NKp46 is encoded by the Ncr1 gene located on chromosome 7. NKp46 functions as a cytotoxicity triggering receptor and is selectively expressed by immature and mature NK cells in all mouse strains tested. NKp46 is detected on a minute fraction of NK-like T cells (less than 2% of NKp46+ express CD3ε) but not on CD1d-restricted NKT cells from C57BL/6 mice. When immobilized on tissue culture plates, the 29A1.4 antibody reportedly stimulates NK cells to produce interferon-gamma and to release their cytoplasmic granule contents. Although the ligands for the NKp46 receptor have not been fully characterized, recent evidence indicates that this receptor plays an important role in the NK cell-mediated recognition and killing of some virus-infected cells and tumor cells. The immunogen used to generate the 29A1.4 clone was mouse NKp46-Fc recombinant protein.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.
Application Notes

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>550627</td>
<td>APC Mouse Anti-Mouse NK-1.1</td>
<td>0.1 mg</td>
<td>PK136</td>
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<tr>
<td>553857</td>
<td>FITC Rat Anti-Mouse CD49b</td>
<td>0.5 mg</td>
<td>DX5</td>
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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
5. An isotype control should be used at the same concentration as the antibody of interest.

References


