TECHNICAL DATA SHEET

CyFlow™ NK1.1 Purified
Anti-Ms; Clone PK136

REF BV488567

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antigen</td>
<td>NK1.1</td>
</tr>
<tr>
<td>Alternative Names</td>
<td>CD161bc</td>
</tr>
<tr>
<td>Clone</td>
<td>PK136</td>
</tr>
<tr>
<td>Clonality</td>
<td>monoclonal</td>
</tr>
<tr>
<td>Format</td>
<td>Purified</td>
</tr>
<tr>
<td>Host / Isotype</td>
<td>Mouse / IgG2a</td>
</tr>
<tr>
<td>Species Reactivity</td>
<td>Mouse</td>
</tr>
<tr>
<td>Negative Species Reactivity</td>
<td></td>
</tr>
<tr>
<td>Quantity [Concentration]</td>
<td>0.1 mg [ 1 mg/ml ]</td>
</tr>
<tr>
<td>Immunogen</td>
<td>NK1-positive murine splenic and bone marrow cells</td>
</tr>
</tbody>
</table>

Contact Information:
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Specificity
The mouse monoclonal antibody PK136 recognizes NK1.1 (CD161bc) antigen (NK cell marker) expressed by some mouse strains (e.g. C57BL/6, NZB, CE, C58, Ma/My), whereas other strains (e.g. BALB/c, AKR, CBA, C3H) do not express this antigen. This antibody detects a conformational epitope on Nkrp1c and Nkrp1b gene products.

Application
Based on published sources, this antibody is suitable for the following applications:
• Flow cytometry
• Immunoprecipitation
• Immunohistochemistry (frozen sections)
• Functional assays

Storage Buffer
The reagent is provided in phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

<table>
<thead>
<tr>
<th>Storage</th>
<th>Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>Do not use after expiration date stamped on vial label.</td>
</tr>
</tbody>
</table>

Background Information
NK1.1 (CD161bc and also known as NKRPI1, Ly55c, or Ly59) is a cell surface antigen expressed on NK cells and NK-T cells of certain mouse strains, which is being used for identification or antibody-mediated depletion of these cells in the respective strains. This antigen participates in NK cell activation, including production of interferon gamma, and release of cytotoxic granules.

References


• Laffont S, Seillet C, Ortaldo J, Coudert JD, Guéry JC: Natural killer cells recruited into lymph nodes inhibit alloreactive T-cell activation through perforin-mediated killing of donor allogeneic dendritic cells. Blood. 2008 Aug 1; 112(3):661-71. < PMID: 18505782 >


The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.