Technical Data Sheet

PE Rat Anti-Mouse NK-T/NK Cell Antigen

**Product Information**

- **Material Number:** 550082
- **Alternate Name:** ICAM-1
- **Size:** 0.2 mg
- **Concentration:** 0.2 mg/ml
- **Clone:** U5A2-13
- **Immunogen:** BALB/c nu/nu mouse lymphoma line tMK-2U
- **Isotype:** Rat (F344) IgG2a, κ
- **Reactivity:** QC Testing: Mouse
- **Storage Buffer:** Aqueous buffered solution containing ≤0.09% sodium azide.

**Description**

The U5A2-13 mAb recognizes an antigen expressed on most NKT cells and 55% of NK cells in the liver of various mouse strains, including both NK1.1+ (e.g., C57BL/6) and NK1.1- (e.g., BALB/c, C3H/He, MRL/lpr) strains. Abundant IL-4 and IFN-γ are produced by U5A2-13 Ag+ TCR αβ+ cells upon CD3 cross-linking, but not by U5A2-13 Ag- TCR αβ+ cells in both NK1.1+ and NK1.1- strains. In C57BL/6 mice (NK1.1+ strain), 80% of U5A2-13 Ag+ T cells co-express the NK1.1 molecule. When staining hepatic mononuclear cells with U5A2-13 mAb, the fluorescence intensity detected on on CD3- cells is lower than on CD3+ cells in BALB/c and C57BL/6 mice. Immunoprecipitation studies have shown that the U5A2-13 antigen comprises three proteins of 65 kDa, 34 kDa, and 31 kDa. This antibody clone U5A2-13 was originally established for mouse NKT cells, but recent studies showed that it recognized a novel conformational epitope of ICAM-1.

**Preparation and Storage**

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody can be stored at 4°C and protected from prolonged exposure to light. Do not freeze.

**Application Notes**

**Application**

- Flow cytometry: Routinely Tested

**Recommended Assay Procedure:**

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For optimal immunofluorescent staining, we recommend the use of Mouse Fc Block™ (anti-mouse CD16/CD32 2.4G2 mAb, Cat. No. 553141/553142).

### Suggested Companion Products

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<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>553141</td>
<td>Purified Rat Anti-Mouse CD16/CD32 (Mouse BD Fc Block™)</td>
<td>0.1 mg</td>
<td>2.4G2</td>
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<tr>
<td>553061</td>
<td>FITC Hamster Anti-Mouse CD3e</td>
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<td>553163</td>
<td>Biotin Mouse Anti-Mouse NK-1.1</td>
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<td>PK136</td>
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<td>554067</td>
<td>APC Streptavidin</td>
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<tr>
<td>555816</td>
<td>Cell Viability Solution</td>
<td>100 tests</td>
<td>(none)</td>
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### Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
4. 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.

### References


