FITC Mouse Anti-Human Invariant NK T Cell

**Product Information**
- **Material Number:** 558371
- **Size:** 100 tests
- **Vol. per Test:** 20 µl
- **Clone:** 6B11
- **Isotype:** Mouse IgG1, κ
- **Reactivity:** QC Testing: Human
- **Workshop:** NA
- **Storage Buffer:** Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

**Description**
Monoclonal antibody 6B11 reacts with a unique determinant in the CDR3 region of the invariant (Vα24-JαQ) TCR chain. Thus 6B11 identifies a subset of all Vα24 positive T cells. The binding of the PE-conjugate of 6B11 can be partially blocked by other antibodies specific for Vα24 (BD Biosciences Pharmingen, data not shown). This invariant chain is expressed on invariant NK T cells, which are a small subset of T lymphocytes that also express other NK cell molecules such as CD161. Invariant NK T cells have been reported to play an immunoregulatory role. The Vα24-JαQ interacts with the CD1d protein. Invariant NK T cells can be specifically activated by CD1d-presented antigen resulting in rapid production of IL-4 and IFN (also known as IFN-γ). Studies of NK T cells describe their role in anti-tumor immunity and autoimmunity.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.

**Profile of anti-variant NK T cell (6B11) reactivity on peripheral blood CD3+ lymphocytes analyzed by flow cytometry**

**Preparation and Storage**
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed. Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

**Application Notes**

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<th>Application</th>
<th>Routinely Tested</th>
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<td>Flow cytometry</td>
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**References**
- BD Biosciences
- bdbiosciences.com
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Suggested Companion Products

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<th>Name</th>
<th>Size</th>
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<td>FITC Mouse IgG1, κ Isotype Control</td>
<td>100 tests</td>
<td>MOPC-21</td>
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Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 X 10e6 cells in a 100-μl experimental sample (a test).
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
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.
5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References