FITC Mouse Anti-Rat CD5

**Product Information**

- **Material Number:** 551449
- **Size:** 0.1 mg
- **Concentration:** 0.5 mg/ml
- **Clone:** OX-19
- **Immunogen:** Rat Thymocyte Lentil Lectin-binding Glycoproteins
- **Isotype:** Mouse IgG1, κ
- **Reactivity:** QC Testing: Rat
- **Storage Buffer:** Aqueous buffered solution containing ≤0.09% sodium azide.

**Description**

The OX-19 antibody reacts with CD5, a 69 kDa cell-surface glycoprotein found on thymocytes, peripheral T lymphocytes, and some thymic dendritic cells, but not on alloantigen-activated cytotoxic T cells, NK cells, γδ TCR-bearing intestinal intraepithelial lymphocytes, or dendritic epidermal T cells. A CD5+ subset of B lymphocytes has not been characterized in the rat. In the mouse and human, CD72 is the major ligand for CD5. While the OX-19 antibody is not mitogenic, its presence augments in vitro proliferative responses of T cells to lectins and allogeneic cells.

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.

**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**

**Application**

- **Flow cytometry**
- **Routinely Tested**

**Suggested Companion Products**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>550616</td>
<td>FITC Mouse IgG1, κ Isotype Control</td>
<td>0.25 mg</td>
<td>MOPC-31C</td>
</tr>
</tbody>
</table>

**Product Notices**

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to wwwbdbiosciencescompharmingenprotocols for technical protocols.
3. 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**


Vermeer LA, de Boer NK, Bucci C, Bos NA, Kroese FG, Alberti S. MRC OX19 recognizes the rat CD5 surface glycoprotein, but does not provide evidence for a population of CD5bright B cells. Eur J Immunol. 1994; 24(3):585-592. (Clone-specific)