

**Biotin-labeled Antibody to Human CD25 (Tac, IL-2 receptor)  
MOUSE MONOCLONAL**

**Catalog Number:** BT-18  
**Quantity:** 100 micrograms  
**Format:** PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), no preservative.  
**Host:** Mouse  
**Isotype:** IgG<sub>2A</sub>  
**Immunogen:** Cultured human T cells

**Background:**

The monoclonal CD25 antibody inhibits the proliferation of Interleukin-2 (IL-2)-dependent human continuous T-cell lines. It blocks the human T-cell receptor for IL-2 by binding to the alpha-chain of the IL-2 receptor. In antigen-induced T-cell proliferative assays, the addition of highly purified IL-2 reverses the inhibitory effects of anti-Tac.

**Specificity and Preparation:**

This antibody recognizes the human Interleukin-2 (IL-2) receptor. Cultured human T-cells were used as immunogen. This antibody was produced in tissue culture supernatants. It has been conjugated to biotin via an amide bond. The antibody is routinely tested by flow cytometry.

**Usage and Storage:**

Applications include cytotoxic killer cell activity (50  $\mu$ l culture supernatant),<sup>1</sup> proliferation inhibition,<sup>2</sup> and flow cytometry (1:10,000).<sup>3</sup> Store the antibody at 4°C for one month or -20°C in undiluted aliquots for one year. Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

**References:**

1. Uchiyama T, Broder S, Waldmann TA (1981) A monoclonal antibody (anti-Tac) reactive with activated and functionally mature human T cells. I. Production of anti-Tac monoclonal antibody and distribution of Tac (+) cells. *J Immunol* 126(4):1393-1397.
2. Uchiyama T, Nelson DL, Fleisher TA, Waldmann TA (1981) A monoclonal antibody (anti-Tac) reactive with activated and functionally mature human T cells. II. Expression of Tac antigen on activated cytotoxic killer T cells, suppressor cells, and on one of two types of helper T cells. *J Immunol* 126(4):1398-1403.
3. Depper JM, Leonard WJ, Robb RJ, Waldmann TA, Greene WC (1983) Blockade of the interleukin-2 receptor by anti-Tac antibody: Inhibition of human lymphocyte activation. *J Immunol* 131(2):690-696.

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