

**Biotin-labeled Antibody to Mouse CD25 (Tac, IL-2 receptor)  
RAT MONOCLONAL**

**Catalog Number:** BT-19  
**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:** Rat  
**Isotype:** IgG<sub>1</sub>  
**Clone:** PC61 5.3  
**Immunogen:** Cultured mouse B6.1 cytotoxic T-cells

**Background:**

Interleukin-2 receptors are located on the surface of T-cells and function in clonal expansion of the activated T-cell. The monoclonal CD-25 antibody inhibits the proliferation of Interleukin-2 (CD25)-dependent murine cell lines. It blocks the murine T-cell receptor for IL-2 by binding to the alpha-chain of IL-2 receptors. This antibody has also been shown to inhibit IL-2 binding to both low and high affinity IL-2 receptors.

**Specificity and Preparation:**

This antibody recognizes the murine interleukin-2 (CD25) receptor. Cultured mouse B6.1 cytotoxic T-cells were used as immunogen. This antibody was produced in tissue culture supernatants. It has been conjugated to biotin via an amide bond.

**Usage and Storage:**

Applications include proliferation inhibition (0.01-1.0  $\mu\text{g/ml}$ ),<sup>2,3</sup> flow cytometry (2  $\mu\text{g}$ ),<sup>1</sup> and immunoprecipitation.<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. Rusterholz C, Henrioud PC, Nabholz M (1999) Interleukin-2 (IL-2) regulates the accessibility of the IL-2-responsive enhancer in the IL-2 receptor alpha gene to transcription factors. *Mol Cell Biol* 19(4):2681-2689.
2. Lowenthal JW, Corthesy P, Tougne C, Lees R, MacDonald HR, Nabholz M (1985) High and low affinity IL 2 receptors: analysis by IL 2 dissociation rate and reactivity with monoclonal anti-receptor antibody PC61. *J Immunol* 135(6):3988-3994.
3. Lowenthal JW, Zubler RH, Nabholz M, MacDonald HR (1985) Similarities between interleukin-2 receptor number and affinity on activated B and T lymphocytes. *Nature* 315(6021):669-672.

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