

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

Catalog Number: AB-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_{2A}
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. The antibody is routinely tested by flow cytometry.

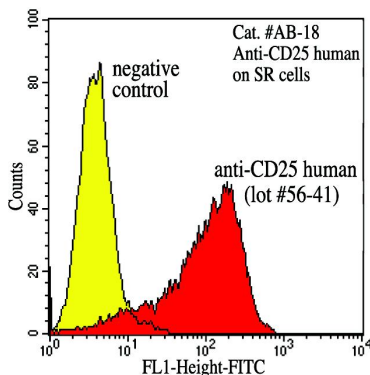
Usage and Storage:

Applications include cytotoxic killer cell activity (50 μ l culture supernatant),¹ proliferation inhibition,² flow cytometry (1:10,000),³ targeting (targeting agent in Anti-CD25-SAP, Cat. #IT-24). 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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SR cells, human lymphoma cells, were used in flow cytometry with CD25 antibody that binds human CD25 (Tac). Cells were treated with 50 ng of Anti-CD25 (Hu) and subsequently with anti-murine IgG-FITC. An 88% shift is seen as compared to the non-treated control.