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**Antibody to Human Interleukin-2**  
**MOUSE MONOCLONAL**

**Catalog Number:** AB-514  
**Quantity:** 500 micrograms  
**Format:** Lyophilized  
**Host:** Mouse  
**Isotype:** IgG2a  
**Clone:** YNRhIL2  
**Immunogen:** r.Human IL-2

**Background:**

Interleukin-2 (IL-2) is a secreted cytokine that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine is a heterotrimeric protein complex whose gamma chain is also shared by interleukin 4 (IL4) and interleukin 7 (IL7). The expression of this gene in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the precise expression of a single gene. The targeted disruption of a similar gene in mice leads to ulcerative colitis-like disease, which suggests an essential role of this gene in the immune response to antigenic stimuli.

**Specificity and Preparation:**

Mouse anti-human interleukin-2 (IL-2) is purified over an ion exchange column. Protein concentration is 1 mg/ml in PBS (after reconstitution). A certain degree of functional cross reactivity with murine IL-2 was reported by some investigators.

**Usage and Storage:**

Reported to be effective for direct ELISA, western blot, immunoprecipitation, immunohistochemistry, and blocking T cell proliferation. Titer: by direct ELISA 1:10,000 dilution will yield 0.4 O.D using alkaline phosphatase conjugated rabbit anti-mouse Ig (Jackson Laboratories). 1:50 dilution will block 70-80% of CTLL proliferative response to 50 units of r.human IL-2.  
Reconstitute with sterile H<sub>2</sub>O. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. Store lyophilized material at 4°C in dry environment. After reconstitution, if not intended for use within a month, aliquot and store at -20°C. Material is stable for two years lyophilized, one month in solution at 4°C.

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