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Antibody to Human Interleukin-7
MOUSE MONOCLONAL

Catalog Number: AB-522
Quantity: 500 micrograms
Format: Lyophilized
Host: Mouse
Isotype: IgG1
Clone: NYRhIL7
Immunogen: r.Human IL-7

Background:

IL-7 is a cytokine important for B and T cell development. This cytokine and hepatocyte growth factor (HGF) form a heterodimer that functions as a pre-pro-B cell growth-stimulating factor. This cytokine is found to be a cofactor for V(D)J rearrangement of the T cell receptor beta (TCRB) during early T cell development. This cytokine can be produced locally by intestinal epithelial and epithelial goblet cells, and may serve as a regulatory factor for intestinal mucosal lymphocytes. Knockout studies in mice suggested that this cytokine plays an essential role in lymphoid cell survival.

Specificity and Preparation:

Mouse anti-human interleukin-7 (IL-7) is purified over an ion exchange column. Protein concentration is 1 mg/ml in PBS (after reconstitution).

Usage and Storage:

Reported to be effective for direct ELISA, western blot, immunoprecipitation, immunohistochemistry, and intracellular staining. Titer: by direct ELISA, 1:10,000 dilution will yield 0.3 O.D using alkaline phosphatase conjugated rabbit anti-mouse Ig (Jackson Laboratories).

Reconstitute with sterile H₂O. 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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