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Antibody to Human Interleukin-4
MOUSE MONOCLONAL

Catalog Number: AB-519
Quantity: 500 micrograms
Format: Lyophilized
Host: Mouse
Isotype: IgG2a
Clone: NYRhIL4
Immunogen: r.Human IL-4

Background:

Interleukin-4 (IL4 or IL-4) is a pleiotropic cytokine produced by activated T cells. IL4 is a ligand for interleukin-4 receptor. The interleukin-4 receptor also binds to IL13, which may contribute to many overlapping functions of this cytokine and IL13. STAT6, a signal transducer and activator of transcription, has been shown to play a central role in mediating the immune regulatory signal of this cytokine. This gene, IL3, IL5, IL13, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL13. IL4, IL13 and IL5 are found to be regulated coordinately by several long-range regulatory elements in an over 120 kilobase range on the chromosome. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.

Specificity and Preparation:

Mouse anti-human interleukin-4 (IL-4) is purified over an ion exchange column. Protein concentration is 1 mg/ml in PBS (after reconstitution). No cross reactivity with murine IL-4 was reported.

Usage and Storage:

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

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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