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**Antibody to Mouse Interleukin-4**  
RAT MONOCLONAL

**Catalog Number:** AB-520  
**Quantity:** 500 micrograms  
**Format:** Lyophilized  
**Host:** rat  
**Isotype:** IgG1  
**Clone:** NYRmIL-4  
**Immunogen:** r.Murine IL-4

**Background:**

IL4 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:**

Rat anti-mouse interleukin-4 (IL-4) 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, 1:5,000 dilution will yield 0.4 O.D using alkaline phosphatase conjugated rabbit anti-mouse Ig (Jackson Laboratories).

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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