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**Antibody to Human Granulocyte Macrophage Colony Stimulating Factor (GM CSF)  
MOUSE MONOCLONAL**

**Catalog Number:** PRP-129ANT  
**Quantity:** 500 micrograms, 1 milligram  
**Format:** Lyophilized  
**Host:** Mouse  
**Isotype:** IgG  
**Clone:** NYRhGMCSF  
**Immunogen:** r.Human GM-CSF

**Background:**

GM CSF is a cytokine that controls the production, differentiation, and function of granulocytes and macrophages. The active form of the protein is found extracellularly as a homodimer. This gene has been localized to a cluster of related genes at chromosome region 5q31, which is known to be associated with interstitial deletions in the 5q- syndrome and acute myelogenous leukemia. Other genes in the cluster include those encoding interleukins 4, 5, and 13. GM CSF stimulates the growth and differentiation of hematopoietic precursor cells from various lineages, including granulocytes, macrophages, eosinophils and erythrocytes.

**Specificity and Preparation:**

Mouse anti-human granulocyte macrophage colony stimulating factor (GM CSF) is purified by 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, and immunoprecipitation. Titer: by direct ELISA 1:10,000 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. In lyophilized form, for long periods, store at 4°C in a dry environment. After reconstitution, if not intended for use within a month, aliquot and store at -20°C. Antibody is stable for two years lyophilized, one month in solution at 4°C. Antibody is shipped lyophilized at ambient temperature.

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