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**Antibody to Human Macrophage Inflammatory Protein-1 Alpha (CCL3)  
MOUSE MONOCLONAL**

**Catalog Number:** AB-525  
**Quantity:** 500 micrograms, 1 milligram  
**Format:** Lyophilized  
**Host:** Mouse  
**Isotype:** IgG1  
**Clone:** YNR-HMIP1a  
**Immunogen:** r.Human MIP1-a

**Background:**

Macrophage inflammatory proteins (MIP) belong to the family of chemotactic cytokines known as chemokines. In humans, there are two major forms, MIP-1alpha and MIP-1beta that are now officially named CCL3 and CCL4 respectively. Both are major factors produced by macrophages after they are stimulated with bacterial endotoxins. They activate human granulocytes (neutrophils, eosinophils and basophils) which can lead to acute neutrophilic inflammation. They also induce the synthesis and release of other pro-inflammatory cytokines such as interleukin 1(IL-1), IL-6 and TNF-alpha from fibroblasts and macrophages. The genes for CCL3 and CCL4 are both located on human chromosome 17.

**Specificity and Preparation:**

Anti-Human MIP-1a 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, and immunoprecipitation. Titer: By direct ELISA, 1:20,000 dilution will yield >1.0 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 two years lyophilized, one month in solution at 4°C. Antibody is shipped lyophilized at ambient temperature.

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