

Mouse Anti-Human CCL3 / MIP-1 alpha mAb

Catalog No.	CMM105	Quantity:	500 µg
Alternate Names:	Chemokine (C-C motif) ligand 3, Heparin-binding chemotaxis protein, Macrophage inflammatory protein 1-alpha, SCYA3, Stem cell inhibition factor		
Description:	Both MIP-1α and MIP-1β are structurally and functionally related CC chemokines. They participate in the host response to invading bacterial, viral, parasite and fungal pathogens by regulating the trafficking and activation state of selected subgroups of inflammatory cells e.g. macrophages, lymphocytes and NK cells. While both MIP-1α and MIP-1β exert similar effects on monocytes their effect on lymphocytes differ; with MIP-1α selectively attracting CD8+ lymphocytes and MIP-1β selectively attracting CD4+ lymphocytes. Additionally, MIP-1α and MIP-1β have also been shown to be potent chemoattractants for B cells, eosinophils and dendritic cells. Both human and murine MIP-1α and MIP-1β are active on human and murine hematopoietic cells. Recombinant human MIP-1α is a 7.8 kDa protein containing 69 amino acid residues, including the four highly conserved cysteine residues present in CC chemokines.		
Uniprot ID:	P10147		
Gene ID:	6348		
Specificity:	Recognizes human MIP-1 alpha		
Host:	BALB/c mouse		
Immunogen:	Recombinant human MIP-1 alpha, >98% purity		
Isotype:	IgG _{1κ}		
Formulation:	Lyophilized from PBS		
Purification:	Protein G chromatography		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to the vial to fully solubilize the antibody to a concentration of 0.1 - 1.0 mg/ml.		
Applications:	ELISA: In a sandwich ELISA (assuming 100 µl/well), a concentration of 2 -4µg/ml of this antibody will detect at least 2000 pg/ml of recombinant human MIP-1α when used with biotinylated antigen affinity purified anti-human MIP-1α as the detection antibody at a concentration of approximately 1 -2 µg/ml. Western Blot: To detect Human MIP-1α by Western Blot analysis this antibody can be used at a concentration of 2 - 4 µg/ml. When used in conjunction with compatible secondary reagents, the detection limit for recombinant Human MIP-1α is 1 - 2 ng/lane, under nonreducing conditions. Neutralization: To yield one-half maximal inhibition [ND50] of the biological activity of Human MIP-1α (100 ng/ml), a concentration of 5 - 10 µg/ml of this antibody is required. The optimal concentration should be determined by the user for each application.		
Storage & Stability:	Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, store at 2-8°C for up to 2 weeks or prepare working aliquots and store at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		

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