

Mouse CCL3/MIP-1α Antibody

Polyclonal Goat IgG Catalog Number: AB-450-NA

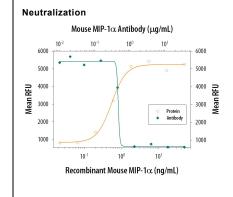
DESCRIPTION		
Species Reactivity	Mouse	
Specificity	Detects mouse CCL3/MIP-1α in direct ELISAs and Western blots. In Western blots, less than 5% cross-reactivity with recombinant human (rh) MIP-1β, rhMIP-1α, and recombinant mouse MIP-1β is observed.	
Source	Polyclonal Goat IgG	
Purification	Protein A or G purified	
Immunogen	E. coli-derived recombinant mouse CCL3/MIP-1α (R&D Systems, Catalog # 450-MA) Ala24-Ala92 Accession # Q5QNW0	
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample	
Western Blot	1 μg/mL	Recombinant Mouse CCL3/MIP-1α Isoform LD78a (Catalog # 450-MA)	
Neutralization	Measured by its ability to neutralize CCL3/MIP-1α-induced chemotaxis in BaF3 mouse pro-B cell line transfected with human CCR5. The Neutralization Dose (ND ₅₀) is typically 0.3-1 μg/mL in the presence of 10 ng/mL		
	Recombinant Mouse C	CCL3/MIP-1α Isoform LD78a.	

DATA



Chemotaxis Induced by CCL3/MIP-1α and Neutralization by Mouse CCL3/MIP-1α **Antibody.** Recombinant Mouse CCL3/MIP-1α (Catalog # 450-MA) chemoattracts BaF3 mouse pro-B cell line transfected with human CCR5 in a dosedependent manner (orange line). The amount of cells that migrated through to the lower chemotaxis chamber was measured by Resazurin (Catalog # AR002). Chemotaxis elicited by Recombinant Mouse CCL3/MIP-1a (10 ng/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Mouse CCL3/MIP-1α Polyclonal Antibody (Catalog # AB-450-NA). The $\overline{\text{ND}}_{50}$ is typically 0.3-1 µg/mL.

PREPARATION AND STORAGE			
Reconstitution	Reconstitute at 1 mg/mL in sterile PBS.		
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.		
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.		
	 12 months from date of receipt, -20 to -70 °C as supplied. 		
	 1 month, 2 to 8 °C under sterile conditions after reconstitution. 		
	 6 months, -20 to -70 °C under sterile conditions after reconstitution. 		

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BACKGROUND

The macrophage inflammatory proteins 1α and 1β , two closely related but distinct proteins, were originally co-purified from medium conditioned by a LPS-stimulated murine macrophage cell line. Mature mouse MIP- 1α shares approximately 77% and 70% amino acid identity with human MIP- 1α and mouse MIP- 1β , respectively. MIP-1 proteins are expressed primarily in T cells, B cells, and monocytes after antigen or mitogen stimulation. The MIP-1 proteins are members of the β (C-C) subfamily of chemokines.

Both MIP-1 α and MIP-1 β are monocyte chemoattractants *in vitro*. Additionally, the MIP-1 proteins have been reported to have chemoattractant and adhesive effects on lymphocytes, with MIP-1 α and MIP-1 β preferentially attracting CD8+ and CD4+ T cells, respectively. MIP-1 α has also been shown to attract B cells as well as eosinophils. MIP-1 proteins have been reported to have multiple effects on hematopoietic precursor cells and MIP-1 α has been identified as a stem cell inhibitory factor that can inhibit the proliferation of hematopoietic stem cells *in vitro* as well as *in vivo*. In the same assays, MIP-1 β was reported to be much less active. The functional receptor for MIP-1 α has been identified as CCR1 and CCR5.

References:

1. Menten, P. et al. (2002) Cytokine Growth Factor Rev. 13:455.

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