

Mouse CCL3/MIP-1α Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF450

DESCRIPTION			
Species Reactivity	Mouse		
Specificity	Detects mouse MIP-1α in ELISAs and Western blots. In sandwich immunoassays, less than 0.05% cross-reactivity with rhCCL3, rmCCL9/1 and rmCCL4 is observed.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	<i>E. coli</i> -derived recombinant mouse CCL3/MIP-1α (R&D Systems, Catalog # 450-MA) Ala24-Ala92 Accession # Q5QNW0		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.		
APPLICATIONS			
Please Note: Optimal diluti	ions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.		
	Recommended Sample Concentration		

Mouse CCL3/MIP-1α Sandwich Immunoassay		Reagent	
ELISA Capture	0.2-0.8 μg/mL	Mouse CCL3/MIP-1α Antibody (Catalog # AF-450-NA)	
ELISA Detection	0.1-0.4 μg/mL	Mouse CCL3/MIP-1α Biotinylated Antibody (Catalog # BAF450)	
Standard		Recombinant Mouse CCL3/MIP-1α (Catalog # 450-MA)	
PREPARATION AND STORAGE			
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.		
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.		

Recombinant Mouse CCL3/MIP-1α (Catalog # 450-MA)

Stability & Storage

Western Blot

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

12 months from date of receipt, -20 to -70 °C as supplied.

 $0.1 \, \mu g/mL$

- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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- 1α proteins are expressed primarily in T cells, B cells, and monocytes after antigen or mitogen stimulation. The MIP- 1α proteins are members of the 1α (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.

