

## **Human CCL23/MPIF-1 Biotinylated Antibody**

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF371

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human CCL23/MPIF-1 in ELISAs and Western blots. In sandwich immunoassays, approximately 10% cross-reactivity with recombinant human (rh) CKβ8-1 (a splice variant of rhMPIF-1) is observed, and less than 0.1% cross-reactivity with rhHCC-1, rhMIP-1δ, an rhMPIF-2 is observed.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-derived recombinant human CCL23/MPIF-1 (R&D Systems, Catalog # 371-MP) Arg22-Asn120 Accession # P55773	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.	

	Recommended Concentration	Sample
Western Blot	0.1 μg/mL	Recombinant Human CCL23/MPIF-1 (Catalog # 371-MP)
Human CCL23/MPIF-1 Sandwich Immunoassay		Reagent
ELISA Capture	2-8 μg/mL	Human CCL23/MPIF-1 Antibody (Catalog # MAB3711)
ELISA Detection	0.1-0.4 μg/mL	Human CCL23/MPIF-1 Biotinylated Antibody (Catalog # BAF371)
Standard		Recombinant Human CCL23/MPIF-1 (Catalog # 371-MP)

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.		
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.		

Myeloid progenitor inhibitory factor (MPIF-1), also known as CKβ8 and MIP-3, is a member of the CC chemokine subfamily that is designated CCL23. Alternative splicing of the MPIF-1 gene results in two mRNAs that encode a short (CKβ8) and a long (CKβ8-1) isoform of the chemokine. CKβ8 cDNA encodes a 120 amino acid (aa) residue precursor protein with a putative 21 aa residue signal peptide that is cleaved to generate a 99 aa residue mature CKβ8 (aa 22 - 120). Additional N-terminal processing of the 99 aa residue variant can generate a 75 aa residue CKβ8 (aa 46 - 120) that is significantly more active than the 99 aa residue variant. Similarly, CKβ8-1 encodes a 137 aa residue precursor protein that can give rise to a 116 and a 92 aa residue chemokine. Among CC chemokine members, MPIF-1 is most closely related to MIP-5/CCL15 (67% sequence identity) and MIP-1α/CCL3 (51%). MPIF-1 mRNA is most abundant in the adult lung and liver, but is also present in bone marrow, placenta, and various myelomonocytic cell lines. MPIF-1 has been shown to suppress the low proliferative potential colony-forming cells that give rise to granulocyte and monocyte lineages. MPIF-1 binds to CCR1 with high affinity and has been shown to be a potent chemoattractant and activator of monocytes, dendritic cells, and osteoclast precursors.

## References:

- 1. Patel, V. et al. (1997) J. Exp. Med. 185:1163.
- Youn, B-S. et al. (1998) Blood 91:3118. 2.
- Nardelli, B. et al. (1999) J. Leukoc. Biol. 61:822.
- Berkhout, T.A. et al. (2000) Biochem. Pharmacol. 59:591.