# Human CCL3/MIP-1α Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: BAF270

## DESCRIPTION

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| **Species Reactivity** | Human |
| **Specificity** | Detects human CCL3/MIP-1α in ELISAs and Western blots. In sandwich immunoassays, less than 0.05% cross-reactivity with recombinant human (rh) MIP-1β, rhMIP-1δ, rhMIP-3α, rhMIP-3β, and recombinant mouse MIP-1α is observed. |
| **Source** | Polyclonal Goat IgG |
| **Purification** | Antigen Affinity-purified |
| **Immunogen** | *E. coli*-derived recombinant human CCL3/MIP-1α<br>Ala27-Ala92<br>Accession # P10147 |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details. |

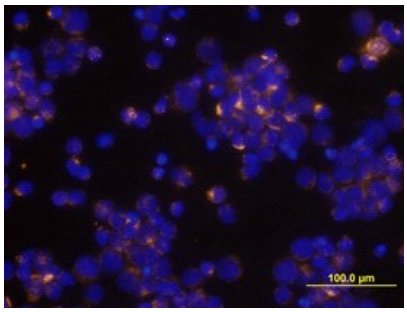
## APPLICATIONS

**Please Note:** *Optimal 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** | 0.1 µg/mL | Recombinant Human CCL3/MIP-1α isoform LD78a (Catalog # 270-LD) |
| **Immunocytochemistry** | 5-15 µg/mL | See Below |
| ***Human CCL3/MIP-1α Sandwich Immunoassay*** | | **Reagent** |
| **ELISA Capture** | 0.2-0.8 µg/mL | Human CCL3/MIP-1α Antibody (Catalog # AF-270-NA) |
| **ELISA Detection** | 0.1-0.4 µg/mL | Human CCL3/MIP-1α Biotinylated Antibody (Catalog # BAF270) |
| **Standard** | | Recombinant Human CCL3/MIP-1α Isoform LD78a (Catalog # 270-LD) |

## DATA

**Immunocytochemistry**




**CCL3/MIP-1α in Human PBMCs.**
CCL3/MIP-1α was detected in immersion fixed human peripheral blood mononuclear cells (PBMCs) stimulated with PHA and monensin using Human CCL3/MIP-1α Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF270) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the Northern-Lights™ 557-conjugated Streptavidin (yellow; Catalog # NL999) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

## PREPARATION AND STORAGE

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| **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.**<br>● 12 months from date of receipt, -20 to -70 °C as supplied.<br>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.<br>● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

## BACKGROUND

The macrophage inflammatory proteins -1α and -1β were originally co-purified from medium conditioned by an LPS-stimulated murine macrophage cell line. Human MIP-1α refers to the products of several independently cloned cDNAs, including LD78, pL78, pAT464, and GOS19. These cDNAs all code for the same human protein that is a homologue of the murine MIP-1α. Mature MIP-1α and MIP-1β in both human and mouse share approximately 70% homology at the amino acid level. The MIP-1 proteins are members of the β (C-C) subfamily of chemokines.

Both MIP-1α and MIP-1β are monocyte chemoattractants *in vitro*. Additionally, the MIP-1 proteins have been reported to have chemoattractant and adhesive effects on lymphocytes, with MIP-1α and MIP-1β preferentially attracting $CD8^+$ and $CD4^+$ T cells, respectively. MIP-1α 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-1α 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*. The functional receptor for MIP-1α has been identified as CCR1 and CCR5.

**References:**

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



bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956

bio-techne
bio-techne.com

**Global** info@bio-techne.com techsupport@bio-techne.com
**North America** TEL 800 343 7475 **Europe | Middle East | Africa** TEL +44 (0)1235 529449
**China** info.cn@bio-techne.com TEL +86 (21) 52380373
**Rest of World** bio-techne.com/find-us/distributors TEL +1 612 379 2956