# Mouse CCL19/MIP-3β Antibody

Antigen Affinity-purified Polyclonal Goat IgG

Catalog Number: AF880

## DESCRIPTION

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|---|---|
| **Species Reactivity** | Mouse |
| **Specificity** | Detects mouse CCL19/MIP-3β in direct ELISAs and Western blots. In direct ELISAs, less than 30% cross-reactivity with recombinant rat CCL19/MIP-3β is observed and less than 10% cross-reactivity with recombinant human CCL19/MIP-3β is observed. |
| **Source** | Polyclonal Goat IgG |
| **Purification** | Antigen Affinity-purified |
| **Immunogen** | *E. coli*-derived recombinant mouse CCL19/MIP-3β<br>Gly26-Val107 (Ser108LeuGlu)<br>Accession # Q548P0 |
| **Endotoxin Level** | <0.01 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.<br>*Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |

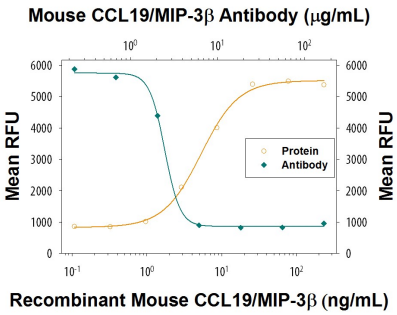
## APPLICATIONS

**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 Mouse CCL19/MIP-3β (Catalog # 440-M3) |
| **Immunocytochemistry** | 5-15 µg/mL | See Below |
| **Neutralization** | Measured by its ability to neutralize CCL19/MIP-3β-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CCR7. The Neutralization Dose ($ND_{50}$) is typically 0.8-4 µg/mL in the presence of 50 ng/mL Recombinant Mouse CCL19/MIP-3β. | |

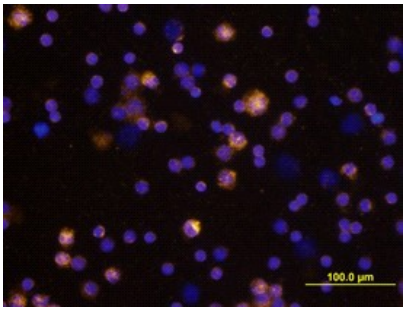
## DATA

### Neutralization



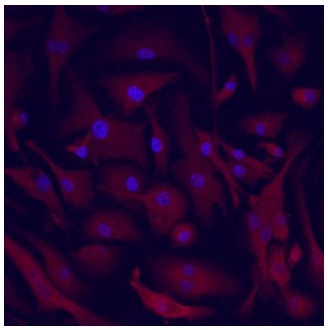

**Chemotaxis Induced by CCL19/MIP-3β and Neutralization by Mouse CCL19/MIP-3β Antibody.** Recombinant Mouse CCL19/MIP-3β (Catalog # 440-M3) chemoattracts the BaF3 mouse pro-B cell line transfected with human CCR7 in a dose-dependent manner (orange line). The amount of cells that migrated through to the lower chemotaxis chamber was measured by Resazurin (Catalog # AR002). Chemotaxis elicited by Recombinant Mouse CCL19/MIP-3β (50 ng/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Mouse CCL19/MIP-3β Antigen Affinity-purified Polyclonal Antibody (Catalog # AF880). The $ND_{50}$ is typically 0.8-4 µg/mL.

### Immunocytochemistry




**CCL19/MIP-3β in Mouse Splenocytes.** CCL19/MIP-3β was detected in immersion fixed mouse splenocytes using Goat Anti-Mouse CCL19/MIP-3β Antigen Affinity-purified Polyclonal Antibody (Catalog # AF880) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (yellow; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

### Immunocytochemistry



**CCL19/MIP-3β in Mouse Dendritic Cells.** CCL19/MIP-3β was detected in immersion fixed mouse dendritic cells using Goat Anti-Mouse CCL19/MIP-3β Antigen Affinity-purified Polyclonal Antibody (Catalog # AF880) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Non-adherent Cells.



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Antigen Affinity-purified Polyclonal Goat IgG

Catalog Number: AF880

## 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.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| **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

CCL19/MIP-3β, also known as ELC (EBI1-Ligand Chemokine), is a reported β chemokine that binds specifically to the chemokine receptor CCR-7/EBI-1/BLR-2. Mouse (human) MIP-3β cDNA encodes a 108 (98) amino acid residue precursor protein with a predicted 25 (21) aa residue signal peptide that is cleaved to form the 83 (77) aa residue mature secreted protein. MIP-3β is distantly related to other β chemokines (20-30% aa sequence identity). Mouse MIP-3β shares 83% aa sequence homology with human MIP-3β. MIP-3β has been shown to be constitutively expressed in various lymphoid tissues (including thymus, lymph nodes, appendix, and spleen) in dendritic cells within the T cell zone. The expression of MIP-3β is down-regulated by the anti-inflammatory cytokine IL-10. Recombinant MIP-3β has been shown to be chemotactic for T cells and B cells. The MIP-3β receptor (CCR7/EBI-1/BLR-2) is expressed in various lymphoid tissues and activated B and T lymphocytes. CCR7 is also strongly up-regulated in B cells infected with Epstein-Barr virus and T cells infected with herpes virus 6 or 7.

**References:**


1. Kim, C.H. *et al.* (1998) J. Immunol. **160**:2418.
2. Ngo, V.N. *et al.* (1998) J. Exp. Med. **188**:181.
3. Rossi, D.L. *et al.* (1997) J. Immunol. **158**:1033.
4. Yoshida, R. *et al.* (1997) J. Biol. Chem. **272**:13803.




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