**DESCRIPTION**

**Species Reactivity:** Mouse

**Specificity:** Detects mouse CCL19/MIP-3β in direct ELISAs and Western blots.

**Source:** Polyclonal Goat IgG

**Purification:** Antigen Affinity-purified

**Immunogen:** E. coli-derived recombinant mouse CCL19/MIP-3β

Gly26-Val107 (Ser108LeuGlu)

Accession # Q548P0

**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.

*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**

<table>
<thead>
<tr>
<th>Sample</th>
<th>Western Blot</th>
<th>Immunocytochemistry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recombinant Mouse CCL19/MIP-3β</td>
<td>0.1 µg/mL</td>
<td>5-15 µg/mL</td>
</tr>
</tbody>
</table>

**Neutralization**

Neutralization is 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 (ND50) is typically 0.8-4 µg/mL in the presence of 50 ng/mL Recombinant Mouse CCL19/MIP-3β.

**DATA**

**Chemotaxis Induced by CCL19/MIP-3β and Neutralization by Mouse CCL19/MIP-3β Antibody.**

Recombinant Mouse CCL19/MIP-3β (Catalog # 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 # 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 Antibody, Antigen Affinity-purified Polyclonal Antibody (Catalog # AF880). The ND50 is typically 0.8-4 µg/mL.

**Immunocytochemistry**

CCL19/MIP3β in Mouse Splenocytes. CCL19/MIP-3β was detected in immersion fixed mouse splenocytes using Goat Anti-Mouse CCL19/MIP-3β Antibody, 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 # Catalog # NL001) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

CCL19/MIP3β in Mouse Dendritic Cells. CCL19/MIP-3β was detected in immersion fixed mouse dendritic cells using Goat Anti-Mouse CCL19/MIP-3β Antibody, 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 # Catalog # NL001) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

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**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.
*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.
- 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.

**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:**