**DESCRIPTION**

**Species Reactivity**
Human

**Specificity**
Detects human CCL18/PARC in direct ELISAs and Western blots. In direct ELISAs, approximately 15% cross-reactivity with recombinant human (rh) MIP-1α and recombinant mouse MIP-1α is observed and less than 10% cross-reactivity with rhMPIF-1, recombinant viral (rv) MIP-1, rvMIP-2, rhHCC-1, and rhMIP-1δ is observed.

**Source**
Polyclonal Goat IgG

**Purification**
Antigen Affinity-purified

**Immunogen**
E. coli-derived recombinant human CCL18/PARC
Aa21-Aa89

**Accession #** P55774

**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.

<table>
<thead>
<tr>
<th><strong>Recommended Concentration</strong></th>
<th><strong>Sample</strong></th>
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<tbody>
<tr>
<td><strong>Western Blot</strong></td>
<td>0.1 μg/mL</td>
</tr>
<tr>
<td><strong>Intracellular Staining by Flow Cytometry</strong></td>
<td>2.5 μg/10^6 cells</td>
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<tr>
<td>Human monocyte-derived dendritic cells treated with Recombinant Human IL-4 (Catalog # 204-IL), Recombinant Human GM-CSF (Catalog # 215-GM), Recombinant Human TNF-α (Catalog # 210-TA), Recombinant Human IL-1β/IL-1F2 (Catalog # 201-LB), and LPS, fixed with paraformaldehyde and permeabilized with saponin.</td>
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**CyTOF-ready**
Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.

**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**

CCL18, also known as alternative macrophage activation-associated CC chemokine (AMAC)-1, macrophage inflammatory protein (MIP)-4, and dendritic cell chemokine (DC-CK1), is a novel CC chemokine that is highly homologous to MIP-1α (61% amino acid (aa) sequence identity). CCL18 cDNA encodes an 89 aa residue precursor protein with a 20 aa putative signal peptide that is cleaved to generate a 69 aa residue mature protein which lacks potential glycosylation sites. In vitro, CCL18 mRNA expression is induced in alternatively activated macrophages by Th2 cytokines such as IL-4, IL-10, and IL-13, and inhibited by IFN-γ. CCL18 mRNA is also expressed by GM-CSF/IL-4-induced monocyte-derived dendritic cells. In vivo, CCL18 is highly expressed in lung and placenta but is not expressed in epidermal Langerhans cells. Recombinant CCL18 has been shown to chemoattract naïve T cells but not monocytes or neutrophils.

**References:**


**REFERENCES:**