**DESCRIPTION**

**Species Reactivity**  
Human

**Specificity**  
Detects human CCL8/MCP-2 in ELISAs and Western blots. In sandwich immunoassays, less than 0.1% cross-reactivity with recombinant human (rh) HCC-1, recombinant mouse (rm) MIP-1α, rhMCP-1, and rhMCP-3 is observed.

**Source**  
Polyclonal Goat IgG

**Purification**  
Antigen Affinity-purified

**Immunogen**  
E. coli-derived recombinant human CCL8/MCP-2 (R&D Systems, Catalog # 281-CP)  
Gln24-Pro99  
Accession # P80075

**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.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Recommended Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recombinant Human CCL8/MCP-2 (Catalog # 281-CP)</td>
<td>0.1 μg/mL</td>
</tr>
</tbody>
</table>

**Human CCL8/MCP-2 Sandwich Immunoassay**

<table>
<thead>
<tr>
<th>Reagent</th>
<th>Human CCL8/MCP-2 Antibody (Catalog # MAB281)</th>
<th>2-8 μg/mL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>Human CCL8/MCP-2 Biotinylated Antibody (Catalog # BAF281)</td>
<td>0.1-0.4 μg/mL</td>
</tr>
<tr>
<td></td>
<td>Recombinant Human CCL8/MCP-2 (Catalog # 281-CP)</td>
<td></td>
</tr>
</tbody>
</table>

**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.

**BACKGROUND**

MCP-2 and MCP-3 are two monocyte chemotactic proteins produced by human MG-63 osteosarcoma cells. Both MCP-2 and MCP-3 are members of the C-C family of chemokines and share 62% and 71% amino acid sequence identity, respectively, with MCP-1. MCP-3 also shares 58% amino acid identity with MCP-2.

Similar to other C-C chemokines, all three MCP proteins are monocyte chemoattractants. In addition, the three MCPs can chemotactically attract NK cells as well as CD4+ and CD8+ T lymphocytes. All three cytokines have also been shown to attract eosinophils and induce histamine secretion from basophils.