# Human CCL13/MCP-4 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG

Catalog Number: BAF327

## DESCRIPTION

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| **Species Reactivity** | Human |
| **Specificity** | Detects human CCL13/MCP-4 in ELISAs and Western blots. In sandwich immunoassays, approximately 0.3% cross-reactivity with recombinant mouse (rm) JE, recombinant human (rh) MCP-2, rhMCP-3, rmMARC, rmMCP-5, rhEotaxin, rhEotaxin-2, rmEotaxin, rhRANTES, and rmRANTES is observed. |
| **Source** | Polyclonal Goat IgG |
| **Purification** | Antigen Affinity-purified |
| **Immunogen** | *E. coli*-derived recombinant human CCL13/MCP-4 (R&D Systems, Catalog # 327-P4)<br>Gln24-Thr98<br>Accession # Q99616 |
| **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 CCL13/MCP-4 (Catalog # 327-P4) |
| ***Human CCL13/MCP-4 Sandwich Immunoassay*** | | **Reagent** |
| **ELISA Capture** | 2-8 µg/mL | Human CCL13/MCP-4 Antibody (Catalog # MAB327) |
| **ELISA Detection** | 0.1-0.4 µg/mL | Human CCL13/MCP-4 Biotinylated Antibody (Catalog # BAF327) |
| **Standard** | | Recombinant Human CCL13/MCP-4 (Catalog # 327-P4) |

## 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

Human CCL13 is a CC chemokine recently cloned from a human fetal and a human heart cDNA library. Human CCL13 cDNA encodes a 98 amino acid residue precursor protein with a 23 amino acid residue hydrophobic signal peptide that is cleaved to yield an 8 kDa, 75 aa mature CCL13. Mature CCL13 lacks any potential N-glycosylation sites and shares a pyroglutamate proline motif with other human MCP proteins. Human CCL13 is most homologous to MCP-1, -3, and Eotaxin, exhibiting approximately 65-66% amino acid sequence identity. CCL13 mRNA is expressed by a number of activated cell types, including endothelial cells, macrophages, bronchial epithelium and type II alveolar cells, and perhaps lymphocytes. CCL13 is a chemoattractant for monocytes and eosinophils, and activates basophils. In addition, it has been reported to be chemotactic for $CD4^+$ and $CD8^+$ T cells, with an activity almost equivalent to that of MCP-3. The bioactivities of CCL13 is most likely mediated by the CC chemokine receptors CCR2 and CCR3, both of which have been shown to bind CCL13.

**References:**


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