

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CCL7/MCP-3 in ELISAs and Western blots. In sandwich immunoassays, less than 0.1% cross-reactivity with recombinant human (rh) Eotaxin, recombinant mouse (rm) JE, rhI-309, rhMCP-1, rhMCP-2, rmMCP-3, rhMCP-4, and rmMCP-5 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human CCL7/MCP-3 (R&D Systems, Catalog # 282-P3) Gln34-Leu109 Accession # Q7Z7Q8
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 CCL7/MCP-3/MARC (Catalog # 282-P3)
Human CCL7/MCP-3 Sandwich Immunoassay		Reagent
ELISA Capture	2-8 µg/mL	Human CCL7/MCP-3/MARC Antibody (Catalog # MAB282)
ELISA Detection	0.1-0.4 µg/mL	Human CCL7/MCP-3/MARC Biotinylated Antibody (Catalog # BAF282)
Standard		Recombinant Human CCL7/MCP-3/MARC (Catalog # 282-P3)

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	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 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 CCL7 are two monocyte chemotactic proteins produced by human MG-63 osteosarcoma cells. Both MCP-2 and CCL7 are members of the C-C family of chemokines and share 62% and 71% amino acid sequence identity, respectively, with MCP-1. CCL7 also shares 58% amino acid identity with MCP-2.

CCL7 cDNA encodes a 99 amino acid residue precursor protein from which the N-terminal 23 amino acid residues are cleaved to generate the 76 amino acid residue mature CCL7. Mature CCL7 contains a potential N-linked and several possible O-linked glycosylation sites.

Similarly to other C-C chemokines, all three MCP proteins are monocyte chemoattractants. In addition, the three MCPs can chemoattract activated 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.