

DESCRIPTION

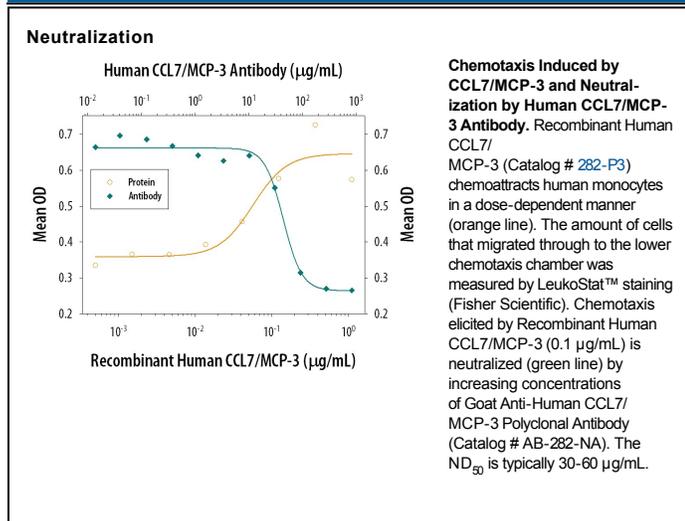
Species Reactivity	Human
Specificity	Detects human CCL7/MCP-3/MARC in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 6% cross-reactivity with recombinant human (rh) MCP-2 and rhMCP-1 is observed.
Source	Polyclonal Goat IgG
Purification	Protein A or G purified
Immunogen	<i>E. coli</i> -derived recombinant human CCL7/MCP-3/MARC Gln24-109 Accession # P80098
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.

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	1 µg/mL	Recombinant Human CCL7/MCP-3/MARC (Catalog # 282-P3)
Neutralization		Measured by its ability to neutralize CCL7/MCP-3/MARC-induced chemotaxis in human monocytes. The Neutralization Dose (ND ₅₀) is typically 30-60 µg/mL in the presence of 0.1 µg/mL Recombinant Human CCL7/MCP-3/MARC.

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 1 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.

Similar 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.