

## DESCRIPTION

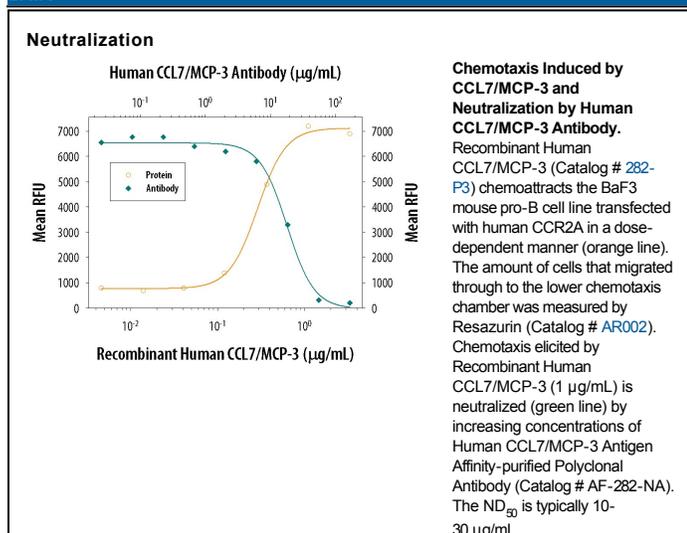
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human CCL7/MCP-3/MARC in direct ELISAs and Western blots. In these formats, less than 20% cross-reactivity with recombinant human (rh) Eotaxin is observed and less than 5% cross-reactivity with rhMCP-2, rhMCP-1, and recombinant mouse JE is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human CCL7/MCP-3/MARC (R&D Systems, Catalog # 282-P3) Gln34-Leu109 Accession # Q7Z7Q8
<b>Endotoxin Level</b>	<0.10 EU per 1 µg of the antibody by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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.

	Recommended Concentration	Sample
<b>Western Blot</b>	0.1 µg/mL	Recombinant Human CCL7/MCP-3/MARC (Catalog # 282-P3)
<b>Neutralization</b>		Measured by its ability to neutralize CCL7/MCP-3/MARC-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CCR2A. The Neutralization Dose (ND <sub>50</sub> ) is typically 10-30 µg/mL in the presence of 1 µg/mL Recombinant Human CCL7/MCP-3/MARC.

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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<sup>+</sup> and CD8<sup>+</sup> T lymphocytes. All three cytokines have also been shown to attract eosinophils and induce histamine secretion from basophils.