

## DESCRIPTION

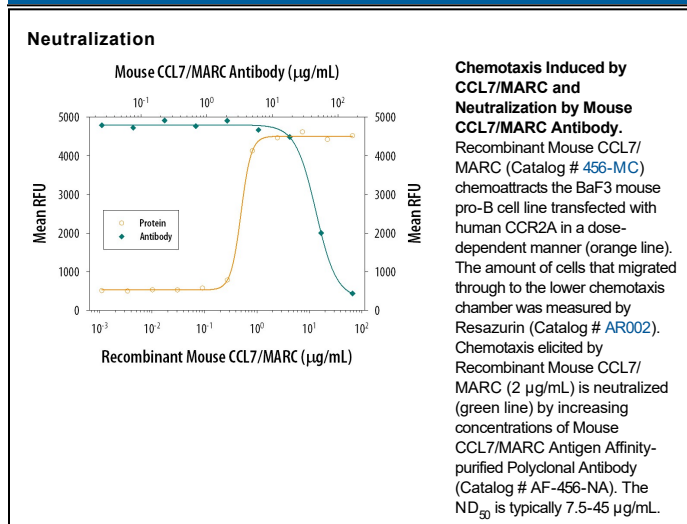
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse CCL7/MCP-3/MARC in direct ELISAs and Western blots. In direct ELISAs, approximately 15% cross-reactivity with recombinant human Eotaxin and recombinant mouse (rm) JE is observed and less than 5% cross-reactivity with rmMCP-5 is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant mouse CCL7/MCP-3/MARC Gln24-Pro97 Accession # Q03366
<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 either lyophilized or 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 Mouse CCL7/MCP-3/MARC (Catalog # 456-MC)
<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 7.5-45 µg/mL in the presence of 2 µg/mL Recombinant Mouse 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**

Mouse MARC, a member of the  $\beta$  subfamily of chemokines, was initially identified as a transcript that is induced in a mouse mast cell line after Fc epsilon RI triggering by IgE plus antigen. Sequence comparisons suggest that MARC may be the mouse homologue of the human MCP-3 gene. Mouse MARC/MCP-3 expression has also been detected during murine experimental allergic encephalomyelitis in the spinal cord, and in LPS-stimulated murine WEHI -3 cells and Swiss 3T3 cells where MARC expression is glucocorticoid-attenuated. Except for one amino acid substitution, mouse MARC is identical to mouse FIC, the product of a growth factor-activated gene. The mouse MARC cDNA encodes a 97 amino acid residue precursor protein with a 23 amino acid residue signal peptide that is cleaved to yield a 74 amino acid residue mature protein. Mouse CCR2, a mouse chemokine receptor, has been shown to bind JE/MCP-1 with high affinity and MARC/MCP-3 with lower affinity. The *E. coli*-expressed mouse MARC/MCP-3 produced at R&D Systems has been shown to be a monocyte and T-lymphocyte chemoattractant.

**References:**

1. Kulmburg, P.A. *et al.* (1992) *J. Exp. Med.* **176**:1773.
2. Thirion, S. *et al.* (1994) *Biochem. Biophys. Res. Commun.* **201**:493.
3. Smith, J.B. and H.R. Herschman (1995) *J. Biol. Chem.* **270**:16756.
4. Kurihara, T. and R. Bravo (1996) *J. Biol. Chem.* **271**:11603.