

DESCRIPTION

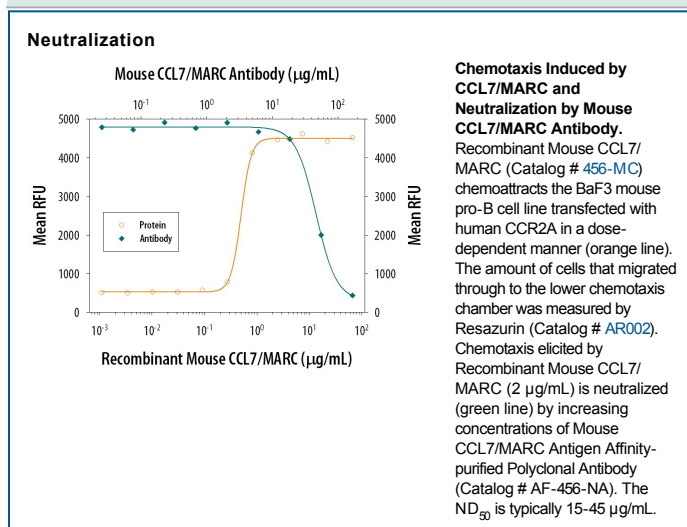
Species Reactivity	Mouse
Specificity	Detects mouse CCL7/MCP-3/MARC in direct ELISAs and Western blots. In direct ELISAs, approximately 30% cross-reactivity with recombinant human (rh) MCP-1 is observed, approximately 15% cross-reactivity with rhEotaxin is observed, and less than 3% cross-reactivity with recombinant mouse Eotaxin, rhMARC, and rhMCP-2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse CCL7/MCP-3/MARC Gln24-Pro97 Accession # Q03366
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	0.1 µg/mL	Recombinant Mouse CCL7/MCP-3/MARC (Catalog # 456-MC)
Neutralization	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 ₅₀) is typically 15-45 µg/mL in the presence of 2 µg/mL Recombinant Mouse CCL7/MCP-3/MARC.	

DATA



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	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <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

Mouse MARC, a member of the β 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:

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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.