

DESCRIPTION

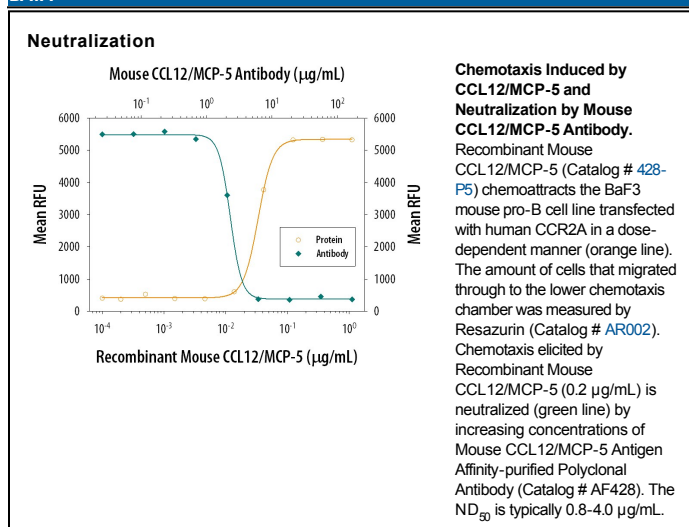
Species Reactivity	Mouse
Specificity	Detects mouse CCL12/MCP-5 in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant human (rh) MCP-3 is observed and 5% cross-reactivity with recombinant mouse (rm) JE, rmMARC, rhMCP-1, and rhMCP-2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse CCL12/MCP-5 (R&D Systems, Catalog # 428-P5) Gly23-Gly104 Accession # Q62401
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. *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
Western Blot	0.1 µg/mL	Recombinant Mouse CCL12/MCP-5 (Catalog # 428-P5)
Neutralization		Measured by its ability to neutralize CCL12/MCP-5-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CCR2A. The Neutralization Dose (ND ₅₀) is typically 0.8-4.0 µg/mL in the presence of 0.2 µg/mL Recombinant Mouse CCL12/MCP-5.

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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
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

CCL12 is a cloned mouse CC chemokine most closely related to human MCP-1 (66% amino acid (aa) sequence identity in the mature protein). Mouse CCL12 encodes a 104 aa residue precursor protein with a 22 aa residue predicted hydrophobic signal sequence that is cleaved to generate a 82 aa residue mature protein. CCL12 is expressed constitutively in the thymus and lymph nodes. Under inflammatory conditions, CCL12 expression is also induced in activated macrophages and mast cells. At high concentrations, CCL12 will also chemoattract eosinophils. CCL12 has been found to be a functional ligand for CCR2 but not CCR1, CCR3, or CCR5.

References:

1. Jia, G.Q. *et al.* (1996) *J. Exp. Med.* **184**:1939.
2. Sarafi, M.N. *et al.* (1997) *J. Exp. Med.* **185**:99.