

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CCL12/MCP-5 in ELISAs and Western blots. In sandwich immunoassays, less than 0.07% cross-reactivity with recombinant human (rh) MCP-1, rhMCP-2, rhMCP-3, rhMCP-4, recombinant mouse (rm) MIP-1γ, rmJE, and rmMARC 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
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein. 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 CCL12/MCP-5 (Catalog # 428-P5)
Mouse CCL12/MCP-5 Sandwich Immunoassay		Reagent
ELISA Capture	2-8 μg/mL	Mouse CCL12/MCP-5 Antibody (Catalog # MAB428)
ELISA Detection	0.1-0.4 μg/mL	Mouse CCL12/MCP-5 Biotinylated Antibody (Catalog # BAF428)
Standard		Recombinant Mouse CCL12/MCP-5 (Catalog # 428-P5)

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	<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

CCL12 is a cloned mouse CC chemokine most closely related to human MCP-1 (66% amino acid sequence identity in the mature protein). Mouse CCL12 encodes a 104 amino acid 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. The gene for mouse MCP-1 has been mapped to the CC chemokine cluster on chromosome 11. Recombinant CCL12 has been shown to be a potent chemoattractant for monocytes and lymphocytes but not neutrophils. 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.