Human CCL8/MCP-2 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF-281-NA

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CCL8/MCP-2 in direct ELISAs and Western blots. In direct ELISAs and Western blots (non-reducing conditions), less than 40% cross-reactivity with recombinant human (rh) HCC-1 is observed, less than 10% cross-reactivity with rhEotaxin is observed, and less than 5% cross-reactivity with rhMCP-1 is observed. Neutralizes the biological activity of rhCCL8. This antibody will not neutralize the biological activity of rhMCP-1, recombinant mouse JE, or rhMCP-3.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human CCL8/MCP-2 Gln24-Pro99 Accession # P80075
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.

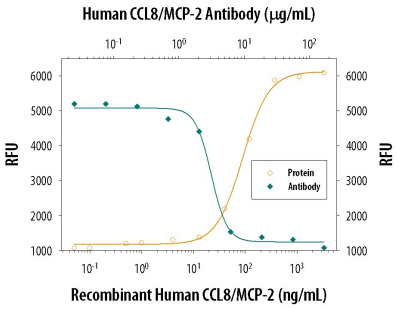
APPLICATIONS

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 Human CCL8/MCP-2 (Catalog # 281-CP)
Neutralization	Measured by its ability to neutralize CCL8/MCP-2-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CCR5. The Neutralization Dose (ND_{50}) is typically 1.5-5.0 µg/mL in the presence of 250 ng/mL Recombinant Human CCL8/MCP-2.	

DATA

Neutralization



Chemotaxis Induced by CCL8/MCP-2 and Neutralization by Human CCL8/MCP-2 Antibody. Recombinant Human CCL8/MCP-2 (Catalog # 281-CP) chemoattracts the BaF3 mouse pro-B cell line transfected with human CCR5 in a dose-dependent manner (orange line). The amount of cells that migrated through to the lower chemotaxis chamber was measured by Resazurin (Catalog # AR002). Chemotaxis elicited by Recombinant Human CCL8/MCP-2 (250 ng/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Human CCL8/MCP-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-281-NA). The ND_{50} is typically 1.5-5.0 µg/mL.

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.** ● 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

MCP-2 and MCP-3 are two monocyte chemotactic proteins produced by human MG-63 osteosarcoma cells. Both MCP-2 and MCP-3 are members of the C-C family of chemokines and share 62% and 71% amino acid sequence identity, respectively, with MCP-1. MCP-3 also shares 58% amino acid identity with MCP-2.

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 $CD4^+$ and $CD8^+$ T lymphocytes. All three cytokines have also been shown to attract eosinophils and induce histamine secretion from basophils.