

DESCRIPTION

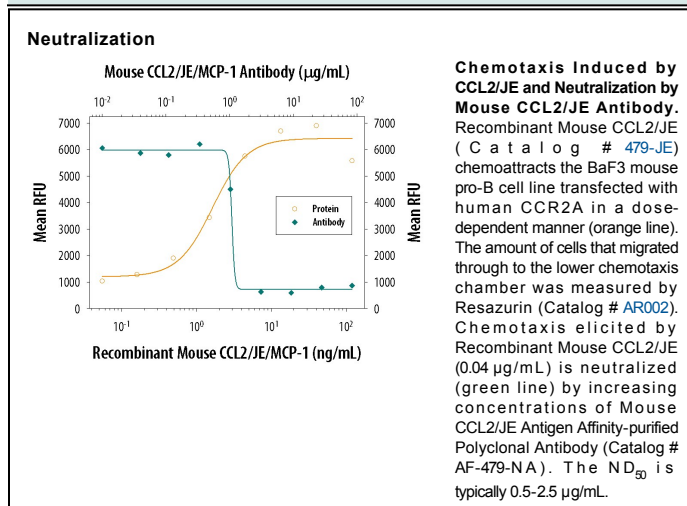
Species Reactivity	Mouse
Specificity	Detects mouse CCL2/JE/MCP-1 in ELISAs and Western blots. In sandwich immunoassays, less than 0.01% cross-reactivity with recombinant human (rh) MCP-1, rhMCP-2, rhMCP-3, recombinant mouse (rm) MARC, rhMCP-4, rmMCP-5, rmMDC, rmMIP-1 α , rmMIP-1 β , rmMIP-1 γ , rmMIP-2, rmMIP-3 β , rmRANTES, rmTARC, and rmTeck is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse CCL2/JE/MCP-1 (R&D Systems, Catalog # 479-JE) Gln24-Arg96 Accession # Q5SVU3
Endotoxin Level	<0.10 EU per 1 μ g of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m 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 μ g/mL	Recombinant Mouse CCL2/JE/MCP-1 (Catalog # 479-JE)
Mouse CCL2/JE/MCP-1 Sandwich Immunoassay		Reagent
ELISA Capture	0.2-0.8 μ g/mL	Mouse CCL2/JE/MCP-1 Antibody (Catalog # AF-479-NA)
ELISA Detection Standard	0.1-0.4 μ g/mL	Mouse CCL2/JE/MCP-1 Biotinylated Antibody (Catalog # BAF479)
Neutralization		Recombinant Mouse CCL2/JE/MCP-1 (Catalog # 479-JE)
		Measured by its ability to neutralize CCL2/JE/MCP-1-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CCR2A. The Neutralization Dose (ND ₅₀) is typically 0.5-2.5 μ g/mL in the presence of 0.04 μ g/mL Recombinant Mouse CCL2/JE/MCP-1.

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

Mouse CCL2 is a member of the β (C-C) subfamily of chemokines. The murine CCL2 gene was initially identified as a platelet-derived growth factor-inducible gene in murine fibroblasts. Mouse CCL2 cDNA encodes a 148 amino acid (aa) residue with a putative 23 aa signal peptide that is cleaved to generate the mature protein. Mouse CCL2 shares 82% amino acid sequence identity with rat CCL2. Mouse CCL2 also shares 55% amino acid sequence identity with human MCP-1. Compared to human MCP-1, mouse CCL2 has a 49 aa residue extension at the carboxy-terminus. Mouse CCL2 has full activity on human cells while human MCP-1 has limited activity on mouse cells.