

DESCRIPTION

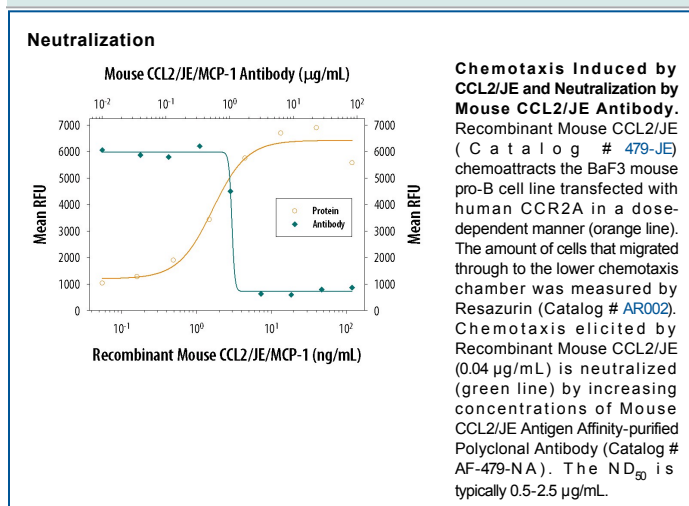
Species Reactivity	Mouse
Specificity	Detects mouse CCL2/JE/MCP-1 in ELISAs and Western blots. In sandwich immunoassays, less than 0.01% cross-reactivity with recombinant human (rh) MCP-1, rhMCP-2, rhMCP-3, recombinant mouse (rm) MARC, rhMCP-4, rmMCP-5, rmMDC, rmMIP-1α, rmMIP-1β, rmMIP-1γ, rmMIP-2, rmMIP-3β, 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	<0.1 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 CCL2/JE/MCP-1 (Catalog # 479-JE)
Mouse CCL2/JE/MCP-1 Sandwich Immunoassay		Reagent
ELISA Capture	0.2-0.8 µg/mL	Mouse CCL2/JE/MCP-1 Antibody (Catalog # AF-479-NA)
ELISA Detection	0.1-0.4 µg/mL	Mouse CCL2/JE/MCP-1 Biotinylated Antibody (Catalog # BAF479)
Standard		Recombinant Mouse CCL2/JE/MCP-1 (Catalog # 479-JE)
Neutralization	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 µg/mL in the presence of 0.04 µg/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.
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 from date of receipt, 2 to 8 °C, reconstituted. 6 months from date of receipt, -20 to -70 °C, reconstituted.

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.