

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human CCL2/JE/MCP-1 in Western blots. Does not cross-react with recombinant human (rh) CCL1, 3, 4, 5, 7, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, rMCC1, 2, 3, 4, 5, 6, 7, 9/10MIP-1γ, 11, 12, 17, 19, 20, 22, 24, 25, or rCCL20.
Source	Monoclonal Mouse IgG ₁ Clone # 24822
Purification	Protein A or G purified from ascites
Immunogen	<i>E. coli</i> -derived recombinant human CCL2/JE/MCP-1
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 either lyophilized or 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	1 μg/mL	See Below
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 0.9-4.5 μg/mL in the presence of 0.15 μg/mL Recombinant Human CCL2/JE/MCP-1.	

DATA

Western Blot

Detection of Recombinant Human CCL2/JE/MCP-1 by Western Blot.
Western blot shows 25 ng of Recombinant Human CCL2/JE/MCP-1 (Catalog # 279-MC), Recombinant Human CCLB/MCP-2 (Catalog # 281-CP), Recombinant Human CCL7/MCP-3/MARC (Catalog # 282-P3), Recombinant Human CCL13/MCP-4 (Catalog # 327-P4), Recombinant Human CCL11/Eotaxin (Catalog # 320-EO), Recombinant Mouse CCL2/JE/MCP-1 (Catalog # 479-JE), and Recombinant Rat CCL2/JE/MCP-1 (Catalog # 3144-JE). PVDF Membrane was probed with 1 μg/mL of Mouse Anti-Human CCL2/JE/MCP-1 Monoclonal Antibody (Catalog # MAB279) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for CCL2/JE/MCP-1 at approximately 11 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

Neutralization

Chemotaxis Induced by CCL2/JE/MCP-1 and Neutralization by Human CCL2/JE/MCP-1 Antibody.
Recombinant Human CCL2/JE/MCP-1 (Catalog #279-MC) chemoattracts the BaF3 mouse pro-B cell line transfected with human CCR2A 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 CCL2/JE/MCP-1 (0.15 μg/mL) is neutralized (green line) by increasing concentrations of Mouse Anti-Human CCL2/JE/MCP-1 Monoclonal Antibody (Catalog # MAB279). The ND₅₀ is typically 0.9-4.5 μg/mL.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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

CCL2 is a β-chemokine that is also known as monocyte chemoattractant protein 1 (MCP-1). It is produced by a variety of cell types and is chemotactic for monocytes.