

DESCRIPTION

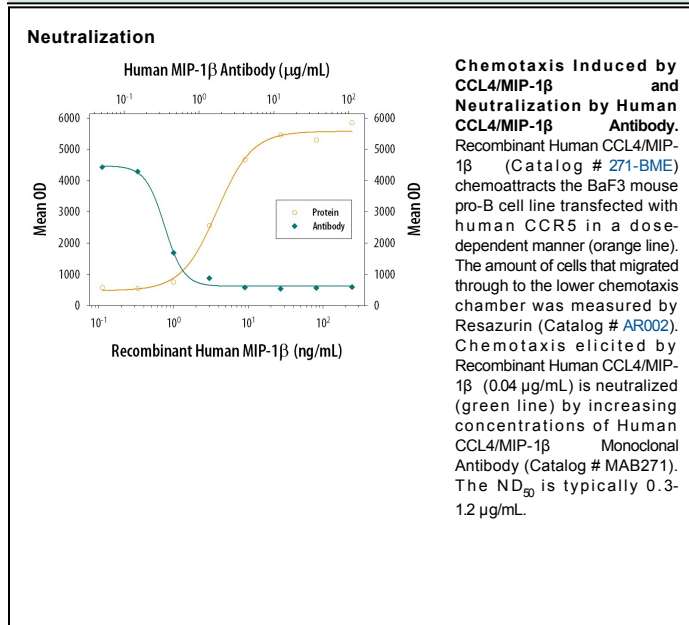
Species Reactivity	Human
Specificity	Detects human CCL4/MIP-1 β in ELISAs and Western blots. In Western blots, this antibody shows less than 4% cross-reactivity with recombinant human (rh) CCL3/MIP-1 α and does not cross-react with recombinant mouse (rm) CCL3/MIP-1 α , rmCCL4/MIP-1 β , rhCXCL8/IL-8, rhCCL5, rhCXCL1, rhCXCL2, or rhCXCL3.
Source	Monoclonal Mouse IgG _{2B} Clone # 24006
Purification	Protein A or G purified from ascites
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human CCL4/MIP-1 β Ala24-Asn92 Accession # P13236
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	1 μ g/mL	Recombinant Human CCL4/MIP-1 β (Catalog # 271-BME)
Intracellular Staining by Flow Cytometry	2.5 μ g/10 ⁶ cells	Human peripheral blood mononuclear cells treated with LPS, fixed with paraformaldehyde, and permeabilized with saponin
Human CCL4/MIP-1β Sandwich Immunoassay		Reagent
ELISA Capture	2-8 μ g/mL	Human CCL4/MIP-1 β Antibody (Catalog # MAB271)
ELISA Detection	0.1-0.4 μ g/mL	Human CCL4/MIP-1 β Biotinylated Antibody (Catalog # BAF271)
Standard		Recombinant Human CCL4/MIP-1 β (Catalog # 271-BME)
Neutralization	Measured by its ability to neutralize CCL4/MIP-1 β -induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CCR5. The Neutralization Dose (ND ₅₀) is typically 0.3-1.2 μ g/mL in the presence of 0.04 μ g/mL Recombinant Human CCL4/MIP-1 β .	

DATA



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

CCL4, also known as Macrophage Inflammatory Protein 1 beta (MIP-1 β) is a member of the CC or beta chemokine subfamily. CCL4 is expressed primarily by T cells, B cells, and monocytes after antigen or mitogen stimulation. The functional receptor for CCL4 has been identified as CCR5. Mature human CCL4 shares 77% and 80% aa sequence identity with mouse and rat CCL4, respectively.