

DESCRIPTION

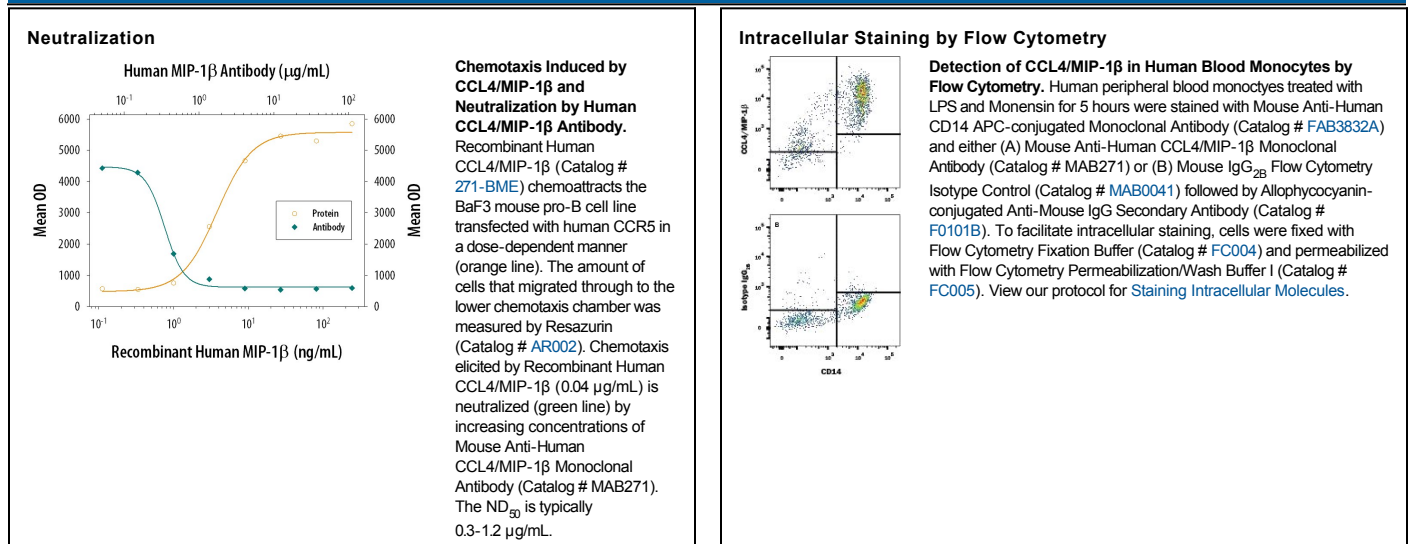
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|---------------------------|--|
| Species Reactivity | Human |
| Specificity | Detects human CCL4/MIP-1 β in ELISAs and Western blots. In Western blots, less than 4% cross-reactivity with recombinant human (rh) CCL3/MIP-1 α and no cross-reactivity with recombinant mouse (rm) CCL3/MIP-1 α , rmCCL4/MIP-1 β , rhCXCL8/IL-8, rhCCL5, rhCXCL1, rhCXCL2, or rhCXCL3 is observed. |
| Source | Monoclonal Mouse IgG _{2B} Clone # 24006 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| 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 | 0.25 μ g/10 ⁶ cells | See Below |
| Human CCL4/MIP-1β Sandwich Immunoassay | | Reagent |
| ELISA Capture | 2-8 μ g/mL | Human CCL4/MIP-1 β Antibody (Catalog # MAB271) |
| ELISA Detection Standard | 0.1-0.4 μ g/mL | Human CCL4/MIP-1 β Biotinylated Antibody (Catalog # BAF271) Recombinant Human CCL4/MIP-1 β (Catalog # 271-BME) |
| CyTOF-ready | Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation. | |
| 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

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|--------------------------------|--|
| 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.