

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CCL4/MIP-1β in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant mouse (rm) MIP-1α is observed, approximately 20% cross-reactivity with recombinant human (rh) MIP-1α and recombinant cotton rat MIP-1α is observed, and less than 1% cross-reactivity with rhMCP-2, rmMIP-1β, mMCP-2, and recombinant viral MIP-1β is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human CCL4/MIP-1β
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 as a 0.2 μm filtered solution in PBS.

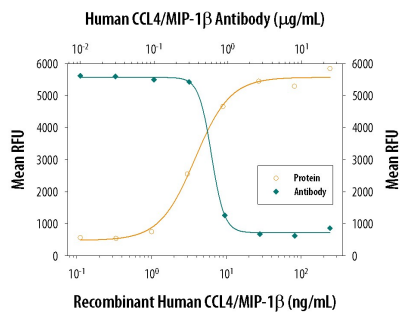
APPLICATIONS

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	0.1 μg/mL	Recombinant Human CCL4/MIP-1β (Catalog # 271-BME)
Immunocytochemistry	5-15 μg/mL	See Below
Immunohistochemistry	5-15 μg/mL	See Below
Neutralization	Measured by its ability to neutralize CCL4/MIP-1β-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CCR5. The Neutralization Dose (ND ₅₀) is typically 0.3-1.5 μg/mL in the presence of 40 ng/mL Recombinant Human CCL4/MIP-1β.	

DATA

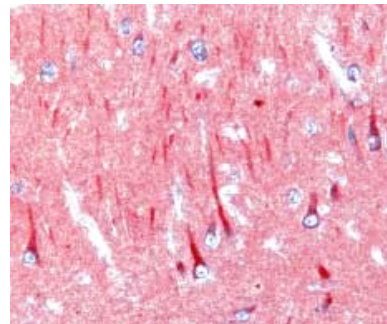
Neutralization



Chemotaxis Induced by CCL4/MIP-1β and Neutralization by Human CCL4/MIP-1β Antibody.

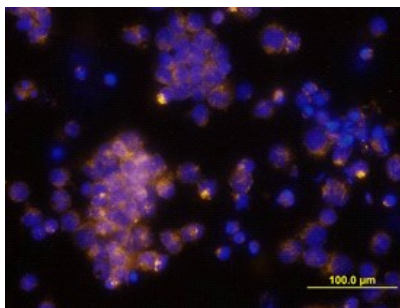
Recombinant Human CCL4/MIP-1β (Catalog # 271-BME) chemoattracts the BaF3 mouse pro-B cell line transfected with human CCR5 in a dose-dependent manner (orange line). The amount of cells that migrated through to the lower chemotaxis chamber was measured by Resazurin (Catalog # AR002). Chemotaxis elicited by Recombinant Human CCL4/MIP-1β (40 ng/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Human CCL4/MIP-1β Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-271-NA). The ND₅₀ is typically 0.3-1.5 μg/mL.

Immunohistochemistry



CCL4/MIP-1β in Human Alzheimer's Disease Brain. CCL4/MIP-1β was detected in immersion fixed paraffin-embedded sections of human Alzheimer's disease brain (hippocampus) using 15 μg/mL Goat Anti-Human CCL4/MIP-1β Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-271-NA) overnight at 4 °C. Tissue was stained with the Anti-Goat HRP-AEC Cell & Tissue Staining Kit (red; Catalog # CTS009) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

Immunocytochemistry



CCL4/MIP-1β in Human PBMCs.

CCL4/MIP-1β was detected in immersion fixed human peripheral blood mononuclear cells (PBMCs) stimulated with PHA and monensin using Goat Anti-Human CCL4/MIP-1β Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-271-NA) at 10 μg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (yellow; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

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.

- 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.