

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human CCL4/MIP-1 $\beta$ in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant mouse (rm) MIP-1 $\alpha$ is observed, approximately 20% cross-reactivity with recombinant human (rh) MIP-1 $\alpha$ and recombinant cotton rat MIP-1 $\alpha$ is observed, and less than 1% cross-reactivity with rhMCP-2, rmMIP-1 $\beta$ , mMCP-2, and recombinant viral MIP-1 $\beta$ is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human CCL4/MIP-1 $\beta$
<b>Endotoxin Level</b>	<0.10 EU per 1 $\mu$ g of the antibody by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 $\mu$ m filtered solution in PBS.

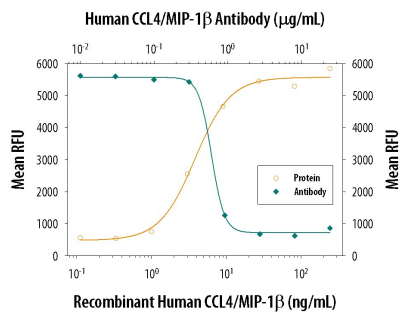
## APPLICATIONS

**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
<b>Western Blot</b>	0.1 $\mu$ g/mL	Recombinant Human CCL4/MIP-1 $\beta$ (Catalog # 271-BME)
<b>Immunocytochemistry</b>	5-15 $\mu$ g/mL	See Below
<b>Immunohistochemistry</b>	5-15 $\mu$ g/mL	See Below
<b>Neutralization</b>	Measured by its ability to neutralize CCL4/MIP-1 $\beta$ -induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CCR5. The Neutralization Dose (ND <sub>50</sub> ) is typically 0.3-1.5 $\mu$ g/mL in the presence of 40 ng/mL Recombinant Human CCL4/MIP-1 $\beta$ .	

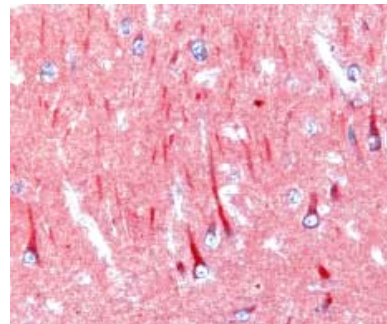
## DATA

### Neutralization



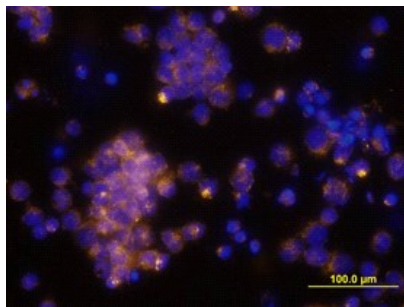
**Chemotaxis Induced by CCL4/MIP-1 $\beta$  and Neutralization by Human CCL4/MIP-1 $\beta$  Antibody.**  
Recombinant Human CCL4/MIP-1 $\beta$  (Catalog # 271-BME) chemoattracts the BaF3 mouse pro-B cell line transfected with human CCR5 in a dose-dependent manner (orange line). The amount of cells that migrated through to the lower chemotaxis chamber was measured by Resazurin (Catalog # AR002). Chemotaxis elicited by Recombinant Human CCL4/MIP-1 $\beta$  (40 ng/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Human CCL4/MIP-1 $\beta$  Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-271-NA). The ND<sub>50</sub> is typically 0.3-1.5  $\mu$ g/mL.

### Immunohistochemistry



**CCL4/MIP-1 $\beta$  in Human Alzheimer's Disease Brain.**  
CCL4/MIP-1 $\beta$  was detected in immersion fixed paraffin-embedded sections of human Alzheimer's disease brain (hippocampus) using 15  $\mu$ g/mL Goat Anti-Human CCL4/MIP-1 $\beta$  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-1 $\beta$ in Human PBMCs.

CCL4/MIP-1 $\beta$  was detected in immersion fixed human peripheral blood mononuclear cells (PBMCs) stimulated with PHA and monensin using Goat Anti-Human CCL4/MIP-1 $\beta$  Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-271-NA) at 10  $\mu$ g/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

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>