

Human CCL15/MIP-1δ Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF363

| DESCRIPTION | | |
|--------------------|--|--|
| Species Reactivity | Human | |
| Specificity | Detects human CCL15/MIP-1δ in direct ELISAs and Western blots. | |
| Source | Polyclonal Goat IgG | |
| Purification | Antigen Affinity-purified | |
| Immunogen | E. coli-derived recombinant human CCL15/MIP-1δ Gln22-lle113 Accession # Q16663 | |
| 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 | 0.1 μg/mL | Recombinant Human CCL15/MIP-1ŏ 92 aa (Catalog # 363-MG) | |
| Neutralization | Measured by its ability to neutralize CCL15/MIP-1δ-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CCR1. The Neutralization Dose (ND ₅₀) is typically 1-5 μg/mL in the presence of 0.1 μg/mL Recombinant Human CCL15/MIP-1δ 92 aa. | | |

DATA

Neutralization

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Human CCL15/MIP-1δ/LKN-1 Antibody (μg/mL) 10-1 10-1 10-1 10-2 8000 Protein Antibody 4000 4000

Recombinant Human CCL15/MIP-18/LKN-1 (ng/mL)

Chemotaxis Induced by CCL15/MIP-1δ and Neutralization by Human CCL15/MIP-1δ Antibody. Recombinant Human CCL15/MIP-1d (Catalog # 363-MG) chemoattracts the BaF3 mouse pro-B cell line transfected with human CCR1 in a dose-dependent manner (orange line). The amount of cells that migrated through to the lower chemotaxis chamber was measured by Resazurin (Catalog # Catalog # AR002). Chemotaxis elicited by Recombinant Human CCL15/MIP-1d (0.1 µg/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Human CCL15/MIP-1d Antigen Affinity-purified Polyclonal Antibody (Catalog # AF363). The ND₅₀ is typically 1-5 µg/mL.

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 $^{\circ}$ C

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- 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

CCL15, a human CC chemokine, was isolated from a human fetal spleen cDNA library. CCL15 cDNA encodes a predicted 113 amino acid (aa) protein containing a putative signal peptide of 21 aa that is cleaved to generate a 92 aa residue mature protein. Within the CC family members, human CCL15 shares 45%, 44%, 35%, and 30% aa homology with mouse C10, human MPIF-1, human HCC-1, and mouse MIP-1\(\gamma\), respectively. The gene for MIP-1\(\delta\) is found on chromosome 17 where the genes for most of the human CC chemokines are located. Human CCL15 is expressed in T and B lymphocytes, NK cells, monocytes and monocyte-derived dendritic cells. Human MIP-1\(\delta\) is chemotactic for T cells and monocytes and has been shown to induce calcium flux in human CCR-1-transfected cells.

References:

1. Wang, W. et al. (1998) J. Clinical Immunol. 18:214

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