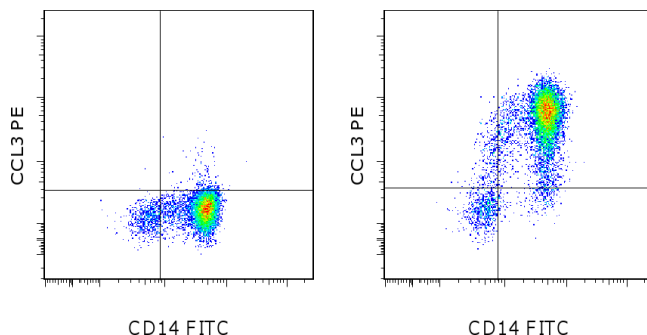


## Anti-Human CCL3 (MIP-1 alpha) PE

**Catalog Number:** 12-7539

**Also known as:** Macrophage Inflammatory Protein 1 alpha, C-C motif chemokine 3, SCYA3

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Normal human peripheral blood monocytes were unstimulated (left) or stimulated with LPS in the presence of Protein Transport Inhibitor Cocktail (cat. 00-4980) (right). Cells were fixed and stained intracellularly with Anti-Human CD14 FITC (cat. 11-0149) and Anti-Human CCL3 PE using the Fixation and Permeabilization Buffers (cat. 88-8824) and protocol. Cells in the monocyte gate were used for analysis.

### Product Information

**Contents:** Anti-Human CCL3 (MIP-1 alpha) PE



**Catalog Number:** 12-7539

**Clone:** PFFM3

**Concentration:** 5  $\mu$ L (0.06  $\mu$ g)/test

**Host/Isotype:** Mouse IgG1, kappa



**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material.

**Batch Code:** Refer to vial



**Use By:** Refer to vial

**Contains sodium azide**

### Description

This PFFM3 monoclonal antibody reacts with human CCL3. CCL3, also known as MIP-1 alpha (Macrophage Inflammatory Protein 1 alpha), is a member of the CC- subfamily of chemokines and is most closely related to CCL4, or MIP-1 beta. These proteins play critical roles in the recruitment of leukocytes to the site of inflammation. While both CCL3 and CCL4 will attract monocytes, macrophages, and dendritic cells, CCL3 preferentially attracts CD8+ T cells, while CD4+ T cells are more responsive to CCL4. In addition to its chemotactic functions, CCL3 induces inflammatory cytokine secretion, mast cell degranulation, and NK cell activation. It has also been reported to inhibit hematopoietic stem cell proliferation and may be responsible for the maintenance of these cells in a quiescent state.

CCL3 signaling is mediated by the G protein-coupled receptors CCR1, CCR4, and CCR5, which are shared with CCL4 and CCL5 (RANTES). CCR5 is the primary co-receptor for HIV entry, which the virus binds through the gp120 envelope protein. All CCR5 ligands demonstrate potent inhibition of virus entry into the cell, both through steric hindrance of gp120-CCR5 interaction, and ligand-mediated receptor internalization.

### Applications Reported

This PFFM3 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

### Applications Tested

This PFFM3 antibody has been pre-titrated and tested by intracellular staining followed by flow cytometric analysis of human peripheral blood monocytes. This can be used at 5  $\mu$ L (0.06  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test.

### References

Brandt SM, Mariani R, Holland AU, Hope TJ, Landau NR. Association of chemokine-mediated block to HIV entry with coreceptor internalization. J Biol Chem. 2002 May 10;277(19):17291-1.

Cook DN. The role of MIP-1 alpha in inflammation and hematopoiesis. J Leukoc Biol. 1996 Jan;59(1):61-6.

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Schall TJ, Bacon K, Camp RD, Kaspari JW, Goeddel DV. Human macrophage inflammatory protein alpha (MIP-1 alpha) and MIP-1 beta chemokines attract distinct populations of lymphocytes. J Exp Med. 1993 Jun 1;177(6):1821-6.

### **Related Products**

00-4980 Protein Transport Inhibitor Cocktail (500X)

11-0149 Anti-Human CD14 FITC (61D3)

65-0863 Fixable Viability Dye eFluor® 450

88-8824 Intracellular Fixation & Permeabilization Buffer Set