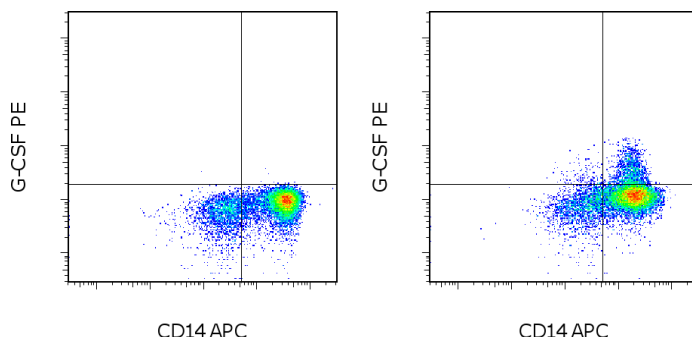


## Anti-Human G-CSF PE

**Catalog Number:** 12-7351

**Also known as:** Granulocyte colony-stimulating factor Granulocyte colony-stimulating factor, CSF3, Pluripoietin

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



Intracellular staining of normal human peripheral blood cells unstimulated (left) or stimulated overnight with LPS in the presence of Protein Transport Inhibitor Cocktail (cat. 00-4980) (right) with Anti-Human CD14 APC (cat. 17-0149) and Anti-Human G-CSF PE (right). Cells in the monocyte gate were used for analysis.

### Product Information



**Contents:** Anti-Human G-CSF PE

**Catalog Number:** 12-7351

**Clone:** 8F5CSF

**Concentration:** 5  $\mu$ L (0.125  $\mu$ g)/test

**Host/Isotype:** Mouse IgG2b, k



**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

### Description

G-CSF (Granulocyte colony-stimulating factor) is a growth factor that stimulates the proliferation, differentiation, and mobilization of hematopoietic stem cells. It is expressed by monocytes, macrophages, and bone marrow stromal cells, and can also be induced in fibroblasts by IL-17A. Unlike GM-CSF and IL-3, which can stimulate cells of multiple lineages, G-CSF activity is limited to neutrophilic granulocytes. G-CSF is essential to the maintenance of neutrophil counts during homeostasis, and low basal levels of the protein are detectable in the serum of healthy individuals. Circulating levels become elevated rapidly upon infection, as G-CSF is also important for the activation and mobilization of mature neutrophils during the innate immune response. G-CSF therapy is commonly used to treat neutropenia following bone marrow transplant or chemotherapy.

### Applications Reported

This 8F5CSF antibody has been reported for use in intracellular staining and flow cytometric analysis.

### Applications Tested

This 8F5CSF antibody has been pre-titrated and tested by intracellular staining followed by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5  $\mu$ L (0.125  $\mu$ 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

von Vietinghoff S, Ley K. Homeostatic regulation of blood neutrophil counts. J Immunol. 2008 Oct 15;181(8):5183-8.

Panopoulos AD, Watowich SS. Granulocyte colony-stimulating factor: molecular mechanisms of action during steady state and 'emergency' hematopoiesis. Cytokine. 2008 Jun; 42(3): 277-88.

Lieschke GJ, Grail D, Hodgson G, Metcalf D, Stanley E, Cheers C, Fowler KJ, Basu S, Zhan YF, Dunn AR. Mice lacking granulocyte colony-stimulating factor have chronic neutropenia, granulocyte and macrophage progenitor cell

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deficiency, and impaired neutrophil mobilization. Blood. 1994 Sep 15; 84(6): 1737-46.

### Related Products

00-4980 Protein Transport Inhibitor Cocktail (500X)

00-8222 IC Fixation Buffer

00-8333 Permeabilization Buffer (10X)

12-4732 Mouse IgG2b K Isotype Control PE

17-0149 Anti-Human CD14 APC (61D3)

88-8823 Fixation & Permeabilization Buffers