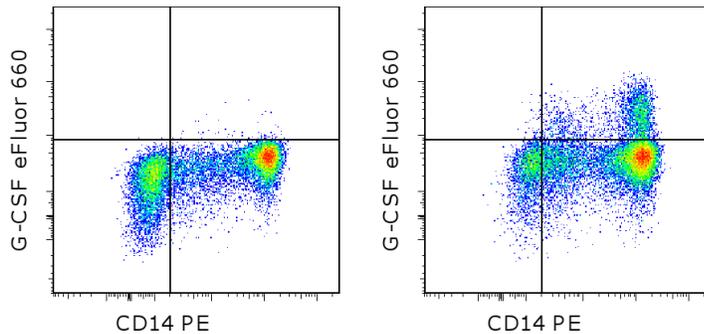


Anti-Human G-CSF eFluor[®] 660

Catalog Number: 50-7351

Also known as: Granulocyte Colony-Stimulating Factor, CSF-3

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 (right) in the presence of Protein Transport Inhibitor Cocktail (cat. 00-4980) with Anti-Human CD14 PE (cat. 12-0149) and Anti-Human G-CSF eFluor[®] 660. Cells in the monocyte gate were used for analysis.

Product Information



Contents: Anti-Human G-CSF eFluor[®] 660

Catalog Number: 50-7351

Clone: 8F5CSF

Concentration: 5 μ L (0.125 μ g)/test

Host/Isotype: Mouse IgG2b, 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

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 μ L (0.125 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

eFluor[®] 660 is a replacement for Alexa Fluor[®] 647. eFluor[®] 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

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.

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

Related Products

00-4980 Protein Transport Inhibitor Cocktail (500X)

12-0149 Anti-Human CD14 PE (61D3)

34-8523 Human G-CSF Recombinant Protein Carrier-Free

BMS2001INST* Human G-CSF Instant ELISA

BMS82001FF* Human G-CSF FlowCytomix Simplex

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