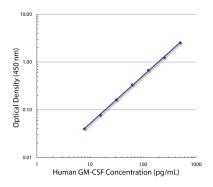




# Rat Anti-Human GM-CSF

Cat. No.	Format	Size
10111-01	Purified (UNLB)	0.5 mg
10111-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg



Standard curve generated with Rat Anti-Human GM-CSF-UNLB (SB Cat. No. 10111-01; Clone BVD2-23B6) and Rat Anti-Human GM-CSF-BIOT (SB Cat. No. 10112-08; Clone BVD2-21C11) followed by Streptavidin-HRP (SB Cat. No. 7100-05)

#### **Overview**

 Immunogen
 E. coli-expressed human GM-CSF

 Specificity
 Human/Rhesus/Cynomolgus GM-CSF

Alternate Name(s) Granulocyte/macrophage colony-stimulating factor, CSF-α, pluripoietin-α, eosinophil colony stimulating

factor, Eo-CSF, burst promoting activity, BPA

### **Applications**

ELISA-Capture – Quality tested <sup>1-7</sup> ELISPOT-Capture – Reported in literature <sup>4,6,8</sup> IP – Reported in literature <sup>3</sup> Neut – Reported in literature <sup>1,3,9,10</sup> Multiplex-Capture – Reported in literature <sup>11</sup>

Note - May be paired with the biotinylated clone BVD2-21C11 (SB Cat. No. 10112-08) in a sandwich ELISA

## **Working Dilutions**

ELISA Purified (UNLB) antibody ≤ 5 μg/mL

Other Applications Since applications vary, you should determine the optimum working dilution for the product that is

appropriate for your specific need.

For Research Use Only. Not for Diagnostic or Therapeutic Use.

### **Handling and Storage**

- The purified (UNLB) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added. Store at 2-8°C.
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. Contains no preservative; handle under aseptic conditions. Store at 2-8°C or aliquot into smaller volumes and store at -20°C. Avoid multiple freeze / thaw cycles.
- Reagents are stable for the period shown on the label if stored as directed.

#### References

- Abrams JS, Silver JE, Van Dyke RE, Gleich GJ. Eosinophil-active cytokines in human disease: development and use of monoclonal antibodies to IL-3, IL-5 and GM-CSF. In: Gleich GJ, Kay AB, editors. Eosinophils in allergy and inflammation. New York: Marcel Dekker; 1994. p. 133-57. (Immunogen, ELISA-Capture, Neut)
- 2. Bacchetta R, de Waal Malefijt R, Yssel H, Abrams J, de Vries JE, Spits H, et al. Host-reactive CD4<sup>+</sup> and CD8<sup>+</sup> T cell clones isolated from a human chimera produce IL-5, IL-2, IFN-γ and granulocyte/macrophage-colony-stimulating factor but not IL-4. J Immunol. 1990;144:902-8. (ELISA-Capture)
- 3. Abrams JS, Roncarolo M, Yssel H, Andersson Ú, Gleich GJ, Silver JÉ. Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples. Immunol Rev. 1992;127:5-24. (ELISA-Capture, IP, Neut)
- Mahanty S, Abrams JS, King CL, Limaye AP, Nutman TB. Parallel regulation of IL-4 and IL-5 in human helminth infections. J Immunol. 1992;148:3567-71. (ELISA-Capture, ELISPOT-Capture)
- Abrams JS. Immunoenzymetric assay of mouse and human cytokines using NIP-labeled anti-cytokine antibodies. Curr Protoc Immunol. 2001;6.20:1-15. (ELISA-Capture)
- Mäkitalo B, Andersson M, Areström I, Karlén K, Villinger F, Ansari A, et al. ELISpot and ELISA analysis of spontaneous, mitogen-induced and antigen-specific cytokine production in cynomolgus and rhesus macaques. J Immunol Methods. 2002;270:85-97. (ELISA-Capture, ELISPOT-Capture, Rhesus & Cynomolgus Reactivity)
- Zhao W, Oskeritzian CA, Pozez AL, Schwartz LB. Cytokine production by skin-derived mast cells: endogenous proteases are responsible for degradation of cytokines. J Immunol. 2005;175:2635-42. (ELISA-Capture)
- 8. Klinman D. ELISPOT assay to detect cytokine-secreting murine and human cells. Curr Protoc Immunol. 2008;6.19:1-9. (ELISPOT-Capture)
- 9. Denburg JA, Silver JE, Abrams JS. Interleukin-5 is a human basophilopoietin: induction of histamine content and basophilic differentiation of HL-60 cells and of peripheral blood basophil-eosinophil progenitors. Blood. 1991;77:1462-8. (Neut)
- Kelly EA, Koziol-White CJ, Clay KJ, Liu LY, Bates ME, Bertics PJ, et al. Potential contribution of IL-7 to allergen-induced eosinophilic airway inflammation in asthma. J Immunol. 2009;182:1404-10. (Neut)
- 11. Hutchinson KL, Villinger F, Miranda ME, Ksiazek TG, Peters CJ, Rollin PE. Multiplex analysis of cytokines in the blood of cynomolgus macaques naturally infected with Ebola virus (Reston serotype). J Med Virol. 2001;65:561-6. (Multiplex-Capture, Cynomolgus Reactivity)

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