



CELL LAB Rat Anti-Human GM-CSF

Cat. No.	Form	Quantity
731746	Purified (UNLB) Antibody	0.5 mg

For Research Use Only. Not for use in diagnostic procedures.

DESCRIPTION

Clone: BVD2-23B6
Immunogen: *E. coli*-expressed human GM-CSF
Isotype: Rat IgG2 α
Specificity: Human granulocyte/macrophage – colony stimulating factor (GM-CSF)¹⁻⁴

APPLICATIONS

Enzyme-Linked Immunosorbent Assay (ELISA) Capture: Purified BVD2-23B6 monoclonal antibody is the preferred capture antibody in a sandwich ELISA for quantifying human GM-CSF protein levels.¹⁻⁴ Purified BVD2-23B6 antibody should be paired with biotinylated BVD2-21C11 antibody (Cat. No. 731748) as the detection antibody, with purified recombinant human GM-CSF as the standard.

Immunoprecipitation / Western Blotting: The purified BVD2-23B6 antibody is also useful for immunoprecipitation and Western blotting applications. For Western blotting, a concentration of 1-5 μ g/mL (in conjunction with AP-labeled Goat Anti-Rat Ig, Cat. No. 732647) has been found to enable detection of \leq 100 ng/lane of recombinant human GM-CSF under reducing conditions.

CHARACTERIZATION

To ensure lot-to-lot consistency, each batch of product is tested to conform with characteristics of a standard reference reagent using a sandwich ELISA.

WORKING DILUTIONS

Other Applications: Since applications vary, determine the optimum working dilution of the product that is appropriate for your specific needs.

HANDLING AND STORAGE

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added.
- Reagent is stable until the expiration date on the vial when stored at 2-8°C.

STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use reagent beyond the expiration date on the vial label.
4. Avoid microbial contamination of reagent or erroneous results may occur.

5. Use Good Laboratory Practice (GLP) when handling this reagent.

TRADEMARKS

The Beckman Coulter logo is a trademark of Beckman Coulter, Inc.

For additional information or if damaged product is received, contact your local Beckman Coulter Representative.

REFERENCES

1. Bacchetta R, de Wall Malefyt T, Yssel H, Abrams JS, de Vries JE, Spits H, and Roncarolo MG. 1990. Host reactive CD4+ and CD8+ T cells clones isolated from a human chimera produce IL-5, IL-2, IFN-gamma and granulocyte/macrophage stimulating factor but not IL-4. *J Immunol*, 144:902-908.
2. Kita H, Ohnishi T, Okubo Y, Weller D, Abrams JS, and Gleich GJ. 1991. GM-CSF and interleukin-3 release by human peripheral blood eosinophils and neutrophils. *J Exp Med*, 174:745-748.
3. Abrams JS, Roncarolo MG, Yssel H, Andersson U, Gleich GJ, and Silver JE. 1992. Strategies of anti-cytokine monoclonal antibody development: Immunoassay of IL-10 and IL-5 in clinical samples. *Immunol Rev*, 127:5-24.
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