

Product Data Sheet

Purified anti-human GM-CSF

Catalog # / Size: 502301 / 50 µg
502302 / 500 µg

Clone: BVD2-21C11

Isotype: Rat IgG2a, κ

Immunogen: *E. coli*-expressed, recombinant human GM-CSF.

Reactivity: Human, **Cross-Reactivity:** Cynomolgus, Rhesus

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.

Applications:

Applications: ICFC - *Quality tested*
IHC, IP, WB - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 0.5 µg per 10⁶ cells in 100 µl volume. The purified BVD2-21C11 has been tested by blocking fluorochrome conjugated BVD2-21C11 for intracellular cytokine staining. In order to obtain complete blocking results, a saturated amount of purified antibody (≤ 5.0 µg/million cells) should be used for incubation with target cells, prior to staining with fluorochrome conjugated antibody. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: **ELISA¹⁻⁴ or ELISPOT^{3,4} Detection:** The biotinylated BVD2-21C11 antibody is useful as a detection antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the purified BVD2-23B6 antibody (Cat. No. 502202/502204) as the capture antibody.

Flow Cytometry: The fluorochrome-labeled BVD2-21C11 is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify GM-CSF-producing cells within mixed cell populations.

Neutralization: The BVD2-21C11 antibody can neutralize the bioactivity of natural or recombinant GM-CSF¹.

Additional reported applications (for the relevant formats) include: immunoprecipitation¹, Western blotting, immunohistochemical staining of paraformaldehyde-fixed, saponin-treated frozen tissue sections^{5,6}, and immunocytochemistry.

Note: For testing human GM-CSF in serum or plasma, BioLegend's ELISA Max™ Sets (Cat. No. 432001 to 432006) are specially developed and recommended.

Application References:

1. Abrams J, *et al.* 1992. *Immunol. Rev.* 127:5.
2. Abrams J, *et al.* 1994. *Eosinophils in Allergy and Inflammation*. Marcel Dekker New York. p.133.
3. Bacchetta R, *et al.* 1990. *J. Immunol.* 144:902.
4. Kita H, *et al.* 1991. *J. Exp. Med.* 174:745.
5. Andersson U, *et al.* 1999. *Detection and quantification of gene expression*. New York:Springer-Verlag.
6. Andersson J, *et al.* 1994. *Immunology* 83:16.

Description: Granulocyte/macrophage - colony stimulating factor (GM-CSF) is a hematopoietic factor that is produced by activated T cells, B cells, mast cells, macrophages, fibroblasts, and endothelial cells. In addition to supporting colony formation of granulocyte/macrophage progenitors, GM-CSF is a growth factor for erythroid, megakaryocyte, and eosinophil progenitors.

Antigen References:

1. Fitzgerald K, *et al.* Eds. 2001. *The Cytokine FactsBook*. Academic Press San Diego.
2. Demetri G, *et al.* 1991. *Blood* 78:2791.
3. Fan D, *et al.* 1991. *In vivo* 5:571.
4. Negrin R, *et al.* 1992. *Adv. Pharmacol.* 23:263.

Related Products: **Product**
Purified anti-human GM-CSF

Clone
BVD2-23B6

Application
ELISA Capture, IP, WB



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.