

Product Data Sheet

Biotin anti-human GM-CSF

Catalog # / Size: 502303 / 50 µg

502304 / 500 µg

Clone: BVD2-21C11 **Isotype:** Rat IgG2a, κ

Immunogen: E. coli-expressed, recombinant human GM-CSF. Reactivity: Human, Cross-Reactivity: Cynomolgus, Rhesus

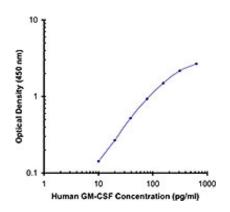
Preparation: The antibody was purified by affinity chromatography, and conjugated with

biotin under optimal conditions. The solution is free of unconjugated biotin.

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. Do not freeze.



Applications:

Applications: ELISA Detection, ELISPOT Detection, ICFC

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For use as an ELISA detection antibody, a

concentration range of 0.25-1.0 μ g/ml is recommended. To obtain a linear standard curve, serial dilutions of human GM-CSF protein ranging from 500 to 4 pg/ml are recommended for each ELISA plate. 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 immnunofluorescent 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.

Kita H, et al. 1991. J. Exp. Med. 174:745.
Andersson U, et al. 1999. Detection and quantification of gene expression. New York:Springer-Verlag.
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 Recombinant Human GM-CSF HRP Avidin

TMB Substrate Reagent Set ELISA Assay Diluent (5X)

Clone BVD2-23B6 rh GM-CSF Avidin

Application ELISA Capture, IP, WB BA, ELISA ELISA, ELISPOT, IHC, WB **ELISA**

ELISA



