Pacific Blue™ anti-human GM-CSF

Catalog # / Size: 3111565 / 25 tests

3111570 / 100 tests

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

Immunogen: E. coli-expressed, recombinant human

GM-CSF.

Reactivity: Human

Preparation: The antibody was purified by affinity

chromatography and conjugated with Pacific Blue™ under optimal conditions. The solution is free of unconjugated

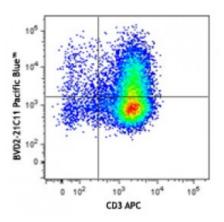
Pacific Blue™.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific



PMA and ionomycin-stimulated Th2polarized human peripheral blood lymphocytes were surface stained with CD3 APC and intracellularly stained with GM-CSF (clone BVD2-21C11) Pacific Blue™ (top) or rat lgG2a, κ Pacific Blue™ isotype control

Applications:

Applications: Flow Cytometry

Recommended

Usage:

Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

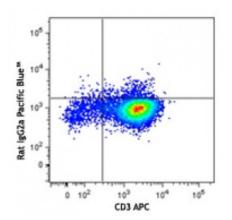
Application Notes:

 ${\sf ELISA^{1-4}}$ or ${\sf ELISPOT^{3,4}}$ 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 fluorochromelabeled 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, saponintreated^{5,6} and acetone-fixed⁷ frozen tissue sections, 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. (ELISA, Neut, IP)
- 2. Abrams J, et al. 1994. Eosinophils in Allergy and Inflammation. Marcel Dekker New York. p.133. (ELISA)
- 3. Bacchetta R, et al. 1990. J. Immunol. 144:902. (ELISA)
- 4. Kita H, et al. 1991. J. Exp. Med. 174:745. (ELISA)
- 5. Andersson U, et al. 1999. Detection and quantification of gene expression. New York: Springer-Verlag. (IHC)
- Andersson J, et al. 1994. Immunology 83:16. (IHC)
 Rasouli J, et al. 2015. J. Immunol. 11:5085-93. (IHC)

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. <