DVS Sciences

Product Information Sheet

Anti-Human GM-CSF-159Tb

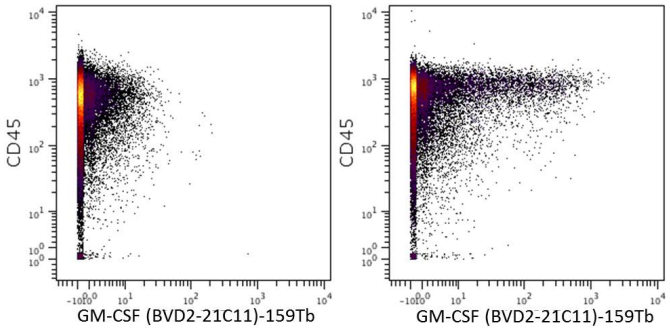
Catalog #: 3159008B
Package Size: 100 tests
Storage: Store product at 4°C. Do not freeze.
Cross Reactivity: Cynomolgus Monkey, Rhesus

Clone: BVD2-21C11
Isotype: Rat IgG2a
Formulation: Antibody stabilizer with 0.05% Sodium Azide

Technical Information

Validation: Each lot of conjugated antibody is quality control tested by CyTOF® analysis of stained cells using the appropriate postive and negative cell staining and/or activation controls.

Recommended Usage: The suggested use is 1 µl for up to 3 X 10^6 live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human PBMCs were incubated for 6 hours in media alone (left) or with PMA and Ionomycin (right) in the presence of monensin and brefeldin A. Cells were then fixed, permeabilized, and stained with 154Sm-anti-CD45 (HI30) and 159Tb-anti-GM-CSF (BVD2-21C11).

Description

GM-CSF, together with G-CSF, M-CSF, IL-3 and IL-5 belong to the family of hematopoietic cytokines. GM-CSF is secreted by a variety of cell types including monocytes, endothelial cells, activated T and B lymphocytes, fibroblasts and LPS-stimulated macrophages. GM-CSF function is mediated by binding to a high-affinity receptor composed of the GM-CSF-specific α chain and a β chain which is shared with the IL-3 and IL-5 receptors. In addition to its hematopoietic properties, GM-CSF mediates critical functions in the response to external stimuli, inflammation and the anti-tumor response.

References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Newell, E.W., et al. Cytometry by Time-of-Flight Shows Combinatorial Cytokine Expression and Virus-Specific Cell Niches within a Contimuum of CD8+ T Cell Phenotypes. Immunity 36 January 2012: 142-152.

Ornatsky, O. I., et al. Highly multiparametric analysis by mass cytometry. J Immunol Methods 361 (1-2):1-20, 2010

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