

GM-CSF Monoclonal Antibody (MP1-22E9), PE, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MP1-22E9
Conjugate	PE
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466205

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	12 Publications

Product Specific Information

Description: The MP1-22E9 antibody reacts with mouse granulocyte/macrophage - colony stimulating factor (GM-CSF). The MP1-22E9 antibody is a neutralizing antibody. Mouse GM-CSF is a 14 kDa factor produced mainly by activated T cells and macrophages. Other cell types, such as endothelium and fibroblasts, also secrete GM-CSF in response to TNF-alpha, IL-2, IL-1, and IFN-gamma. GM-CSF stimulates growth of macrophages, granulocytes and dendritic cells. GM-CSF is found as a membrane-bound form and also as a complex associated with the extracellular matrix. Non-glycosylated GM-CSF is biologically active.

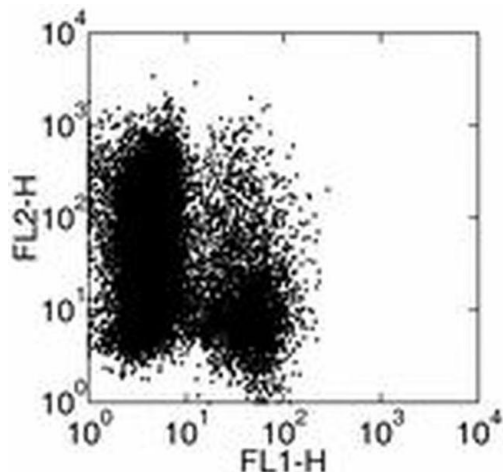
Applications Reported: MP1-22E9 has been reported for use in intracellular flow cytometric analysis.

Applications Tested: This MP1-22E9 antibody is tested by intracellular staining and flow cytometric analysis of cultured mouse splenocytes. It is offered in 2 formats: - µg size: has been tested by intracellular staining and flow cytometric analysis of cultured mouse splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest. - test size: has been pre-titrated and tested by intracellular staining and flow cytometric analysis of cultured mouse splenocytes. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

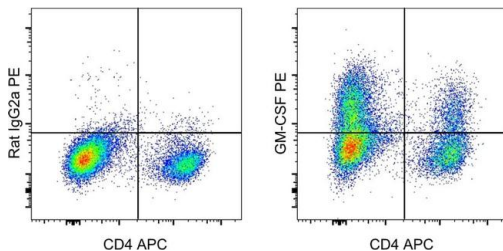
Filtration: 0.2 µm post-manufacturing filtered.

Product Images For GM-CSF Monoclonal Antibody (MP1-22E9), PE, eBioscience™



GM-CSF Antibody (12-7331-82) in Flow

Mouse splenocytes were stimulated with ConA for 2 days, followed by Mouse IL-2 Recombinant Protein (Product # 14-8021-64) and Mouse IL-4 Recombinant Protein (Product # 14-8041-80) for 3 days, and restimulated with immobilized Anti-Mouse CD3e Functional Grade Purified (Product # 16-0031-82) and soluble Anti-Mouse CD28 Functional Grade Purified (Product # 16-0281-82) in the presence of Brefeldin A for 5 hours. The cells were surface stained with Anti-Mouse CD4 FITC and intracellularly stained with Anti-Mouse GM-CSF PE.



GM-CSF Antibody (12-7331-82) in Flow

Mouse Cytokine Positive Control Cells (Product # 00-4500-51) were stained with CD4 Monoclonal Antibody, APC (Product # 17-0042-82) and 0.125 µg of Rat IgG2a kappa Isotype Control, PE (Product # 12-4321-81) (left) or 0.125 µg of GM-CSF Monoclonal Antibody, PE (right). Cells in the lymphocyte gate were used for analysis.

Flow Cytometry (12)

Immunity

Insulin-Like Growth Factors Are Key Regulators of T Helper 17 Regulatory T Cell Balance in Autoimmunity.

"12-7331 was used in Flow cytometry/Cell sorting to show that, among effector T cell subsets, Th17 and Treg cells selectively expressed multiple components of the IGF system."

Authors: DiToro D, Harbour SN, Bando JK, Benavides G, Witte S, Laufer VA, Moseley C, Singer JR, Frey B, Turner H, Bruning J, Darley-Usmar V, Gao M, Conover C, Hatton RD, Frank S, Colonna M, Weaver CT

Species
Mouse

Dilution
Not Cited

Year
2020

Immunity

Interleukin-17A Serves a Priming Role in Autoimmunity by Recruiting IL-1-Producing Myeloid Cells that Promote Pathogenic T Cells.

"12-7331 was used in Flow cytometry/Cell sorting to demonstrate that a key function of IL-17A in central nervous system (CNS) autoimmunity is to recruit IL-1-secreting myeloid cells that prime pathogenic T17 and Th17 cells."

Authors: McGinley AM, Sutton CE, Edwards SC, Leane CM, DeCoursey J, Teijeiro A, Hamilton JA, Boon L, Djouder N, Mills KHG

Species
Mouse

Dilution
Not Cited

Year
2020

[View more Flow references on thermofisher.com](#)

More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.