

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
Excitation/Emission Max	565/576 nm
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	20 Publications

Product Specific Information

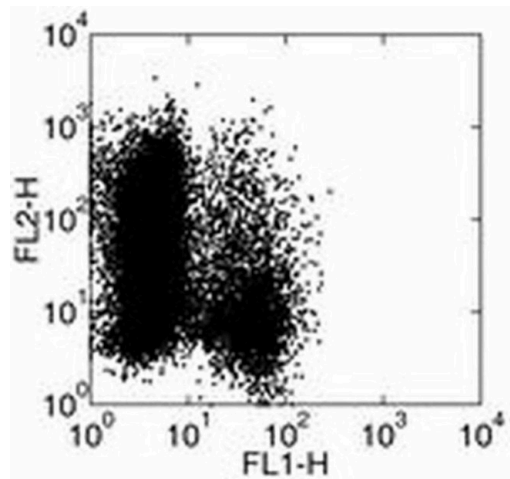
Description: The MP1-22E9 antibody reacts with mouse granulocyte/macrophage - colony stimulating factor (GM-CSF). The MP1-22E9 antibody is a neutralizing antibody. Mouse GM-CSF is a 14 kDa factor produced mainly by activated T cells and macrophages. Other cell types, such as endothelium and fibroblasts, 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: Has been tested bu intracellular staining and flow cytometric analysis of cultured mouse splencocytes. 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.

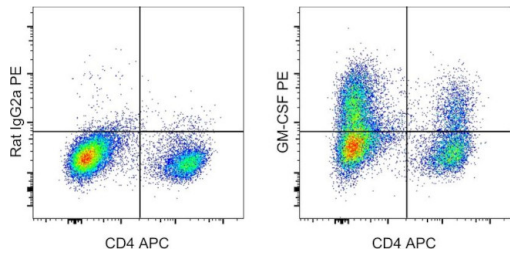
Excitation: 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.



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 Postive 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.

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20 References

Flow Cytometry (20)

<p>Therapeutic advances in chronic disease</p> <p>Prevention of EAE by tolerogenic vaccination with PEGylated antigenic peptides.</p> <p>"Published figure using GM-CSF monoclonal antibody (Product # 12-7331-82) in Flow Cytometry"</p> <p>Authors: Pfeil J,Simonetti M,Lauer U,von Thülen B,Durek P,Poulsen C,Pawlowska J,Kröger M,Krähmer R,Leenders F, Hoffmann U,Hamann A</p>	<p>Year 2023</p> <p>Species Mouse</p>
<p>Nature communications</p> <p>Itaconate ameliorates autoimmunity by modulating T cell imbalance via metabolic and epigenetic reprogramming.</p> <p>"Published figure using GM-CSF monoclonal antibody (Product # 12-7331-82) in Flow Cytometry"</p> <p>Authors: Aso K,Kono M,Kanda M,Kudo Y,Sakiyama K,Hisada R,Karino K,Ueda Y,Nakazawa D,Fujieda Y,Kato M, Amengual O,Atsumi T</p>	<p>Year 2023</p>

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