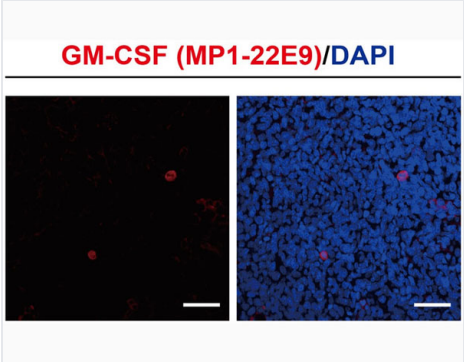
GM-CSF Antibody – Rat Monoclonal

PRODUCT OVERVIEW

Product Name	GM-CSF, Monoclonal Antibody
Full Product Name	Anti-Mouse GM-CSF In Vivo Antibody - Ultra Low Endotoxin (MP1-22E9)
Product Gene Name	anti-GM-CSF antibody
Product Synonym Names	Csf2; Granulocyte-macrophage colony-stimulating factor; Colony-stimulating factor; CSF; Csfgm
Clonality	Monoclonal
Isotype	Rat IgG2a
Clone Number	MP1-22E9
Host	Rat
Species Reactivity	Mouse
Form/Format	0.2 um filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 - 7.3 containing 5.0% w/v trehalose with no calcium, magnesium or preservatives present.
Purity/Purification	>98% by SDS-PAGE and HPLC This monoclonal antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype
Concentration	>=2.0mg/ml (lot specific)
Specificity	Anti-GM-CSF In Vivo Antibody - Ultra Low Endotoxin (MP1-22E9) recognizes an epitope on Mouse GM-CSF
Preparation and Storage	anti-GM-CSF In Vivo Antibody - Ultra Low Endotoxin (MP1-22E9) is lyophilized and can be stored desiccated at -20 degree C to -70 degree C for up to twelve months. The reconstituted antibody can be stored for at least four weeks at 2-8 degree C. For long-term storage of the reconstituted antibody, aseptically aliquot into working volumes and store at -20 degree C to -70 degree C in a manual defrost freezer. Avoid repeated freeze thaw cycles. No detectable loss of activity was observed after six months.
Matching Pairs	Antibody: GM-CSF Clone #MP1-22E9 (MBS3030130) Isotype Control: KLH Clone #2024-01-01 (MBS3030256)
Molecular Weight	16,091 Da
3D Structure	ModBase 3D Structure for P01587
GMP	Manufactured according to cGMP (Current Good Manufacturing Practice) standards.
Endotoxin	<= 0.75 EU/mg as determined by the LAL method
Immunogen	Yeast Derived Recombinant Mouse GM-CSF
Aggregation	Aggregation level <= 1%
IMPACT Pathogen Test	We use the IMPACT test generated by IDEXX Laboratories to guarantee our Ultra Low Endotoxin antibodies are pathogen free. Our rat antibodies are tested for: Mycoplasma spp Mycoplasma pulmonis Pneumonia virus of mice Kilham's rat virus Toolan's H1 virus Rat parvovirus Lymphocytic choriomeningitis virus Rat cytomegalovirus Sendai virus Rat coronavirus Sialodacryoadenitis virus Rat minute virus Seoul virus Mouse adenovirus Reovirus 3 Rat theilovirus
Product Categories/Family for anti-GM-CSF antibody	Ultra Low Endotoxin; anti-mouse
Applications Tested/Suitable for anti-GM-CSF antibody	Western Blot (WB), ELISA (EIA), ELISPOT (Enzyme-linked Immunosorbent Spot), Blocking (BL), Immunocytochemistry (ICC), Immunohistochemistry-Frozen (IHC-F)

Related Product Information for anti-GM-CSF antibody	Granulocyte-macrophage colony-stimulating factor, often abbreviated to GM-CSF is a pleiotropic cytokine that controls the production and function of blood cells. GM-CSF stimulates stem cells to produce granulocytes (neutrophils, eosinophils, and basophils) and monocytes.GM-CSF has a critical role in regulation of surfactant homeostasis and alveolar macrophage innate immune functions in the lung.
Other Notes	Small volumes of anti-GM-CSF antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GM-CSF purchase	MBS3030130 is an antibody targeting GM-CSF. Also known as Anti-Mouse GM-CSF In Vivo Antibody - Ultra Low Endotoxin (MP1-22E9). Reactive in Mouse. Host: Rat.



Immunofluorescence (IF) of anti-GM-CSF antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GM-CSF. It may not necessarily be applicable to this product.

NCBI GI #	110625658
NCBI GeneID	12981
NCBI Accession #	NP_034099.2
UniProt Primary Accession #	P01587
UniProt Related Accession #	P01587
GenBank Nucleotide #	NM_009969.4
NCBI Official Full Name	granulocyte-macrophage colony-stimulating factor
NCBI Official Synonym Full Names	colony stimulating factor 2 (granulocyte-macrophage)
NCBI Official Symbol	Csf2
NCBI Official Synonym Symbols	Csfgm; GMCSF; Gm-CSf; MGI-IGM
UniProt Protein Name	Granulocyte-macrophage colony-stimulating factor
UniProt Synonym Protein Names	Colony-stimulating factor; CSF
Protein Family	Granulocyte colony-stimulating factor receptor
UniProt Gene Name	Csf2
UniProt Synonym Gene Names	Csfgm; GM-CSF; CSF
UniProt Entry Name	CSF2_MOUSE
NCBI Protein Information	granulocyte-macrophage colony-stimulating factor; CSF; granulocyte-macrophage colony stimulating factor 2; put. GM-CSF

UniProt Comments for GM-CSF	GMCSF: Cytokine that stimulates the growth and differentiation of hematopoietic precursor cells from various lineages, including granulocytes, macrophages, eosinophils and erythrocytes. Belongs to the GM-CSF family. Protein type: Secreted; Cytokine; Secreted, signal peptide Cellular Component: extracellular space; extracellular region Molecular Function: growth factor activity; granulocyte macrophage colony-stimulating factor receptor binding; cytokine activity Biological Process: negative regulation of cytolysis; epithelial fluid transport; embryonic placenta development; macrophage activation; positive regulation of tyrosine phosphorylation of Stat5 protein; regulation of gene expression; positive regulation of interleukin-23 production; positive regulation of cell proliferation; myeloid dendritic cell differentiation; immune response; positive regulation of DNA replication; regulation of cell proliferation
Research Articles on GM-CSF	**1.** Expression of PPAR-gamma in fetal lung monocytes was dependent on the cytokine GM-CSF. Therefore, GM-CSF has a lung-specific role in the perinatal development of alveolar macrophages through the induction of PPAR-gamma in fetal monocytes.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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