

Rabbit Anti-Mouse GM-CSF

ORDERING INFORMATION

Catalog Number:	103-PA06
Size:	100 µg
Formulation:	Polyclonal Antibody ; Lyophilized
Synonyms:	Csf2, Csfgm; GM-CSF; Gm-CSF; MGI-IGM
Antigen:	RM GM-CSF (RT #M30-013)
Application:	WB
NCBI Gene ID:	12981
Buffer:	PBS pH 7.4 w/o preservative

Description:

GM-CSF was initially characterized as a factor that can support the in vitro colony formation of granulocyte-macrophage progenitors. It is also a growth factor for erythroid, megakaryocyte, and eosinophil progenitors. GM-CSF is produced by a number of different cell types (including T cells, B cells, macrophages, mast cells, endothelial cells, fibroblasts, and adipocytes) in response to cytokine or inflammatory stimuli. On mature hematopoietic cells, GM-CSF is a survival factor for and activates the effector functions of granulocytes, monocytes/macrophages, and eosinophils. GM-CSF promotes a Th1 biased immune response, angiogenesis, allergic inflammation, and the development of autoimmunity. It shows clinical effectiveness in ameliorating chemotherapy-induced neutropenia, and GM-CSF transfected tumor cells are utilized as cancer vaccines. The 22 kDa glycosylated GM-CSF, similar to IL3 and IL5, is a cytokine with a core of four bundled α -helices. Mature mouse GM-CSF shares 49-54% amino acid sequence identity with canine, feline, human, and porcine GM-CSF and 69% with rat GM-CSF. GM-CSF exerts its biological effects through a heterodimeric receptor complex composed of GM-CSF Ra/CD116 and the signal transducing common β chain (CD131) which is also a component of the high affinity receptors for IL-3 and IL-5. In addition, GM-CSF binds a naturally occurring soluble form of GM-CSF Ra. The activity of GM-CSF is species specific between human and mouse. Mouse GM-CSF is only weakly active on rat cells, although rat GM-CSF is fully active on mouse cells.

Reconstitution:

Centrifuge vial prior to opening. Reconstitute in sterile water to a concentration of 0.1-1.0 mg/ml.

Stability:

The lyophilized antibody is stable at room temperature for up to 1 month. The reconstituted antibody is stable for at least two weeks at 2-8 °C. Frozen aliquots are stable for at least 6 months when stored at -20 °C. **Avoid repeated freeze-thaw cycles!**

Optimal dilutions should be determined by each laboratory for each application.

The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users!

This product is sold for Research Use Only !