For Research Use Only

NeutraKine® GM-CSF Monoclonal antibody

Catalog Number:69003-1-Ig

Basic Information

Catalog Number:
69003-1-Ig

Size:

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
HZ-1002

GenBank Accession Number:

GeneID (NCBI):
1437

Full Name:
colony stimulating factor 2 (granulocyte-macrophage)

Purification Method:
Protein G purification

CloneNo.:
1E10E7

Applications

Tested Applications:
Neutralization, ELISA

Species Specificity:
Human

Background Information

Granulocyte-macrophage colony-stimulating factor (GM-CSF), also known as colony-stimulating factor 2 (CSF2), is a monomeric glycoprotein secreted by macrophages, T cells, mast cells, natural killer cells, endothelial cells and fibroblasts. GM-CSF is a hematopoietic growth factor that stimulates the development of early erythroid megakaryocytic and eosinophilic progenitor cells (PMID 2990035). GM-CSF stimulates stem cells to produce granulocytes (neutrophils, eosinophils, and basophils) and monocytes (PMID 3021817, 2984574, 6390681).

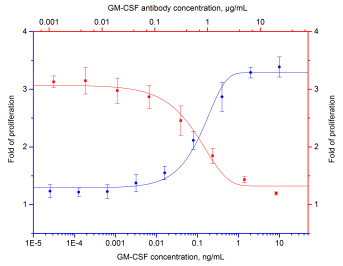
This antibody can be used to neutralize the bioactivity of GM-CSF.

Storage

Storage:
Lyophilized antibodies are stable for 1 year from the date of receipt if stored between (-20°C) and (-80°C). Upon reconstitution we recommend that the solution can be stored at (4°C) for short term or at (-20°C) to (-80°C) for long term. Repeated freeze thaw cycles should be avoided with reconstituted products.
Storage Buffer:
Sterile PBS.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



Recombinant human GM-CSF (Cat.NO. HZ-1002) stimulates proliferation of TF-1 cell line (human erythroleukemic cell line) in a dose-dependent manner (blue curve, refer to bottom X-left Y). The activity of human GM-CSF (0.2 ng/mL HZ-1002) is neutralized by mouse anti-human GM-CSF monoclonal antibody 69003-1-Ig at serial dose (red curve, refer to top X-right Y). The ND50 is typically 1.5-4 μg/mL