



ANOGEN - A Division of YES Biotech Laboratories Ltd.

2355 Derry Road East, Unit 23, Mississauga, ON, Canada L5S 1V6 • Tel: (905) 677-9221 • Fax: (905) 677-0023

Mouse Anti-Human GM-CSF Monoclonal Antibody Datasheet

Product Name: mAb anti-human GM-CSF

Clone No.: 59

Catalogue No.: MO-C40090B

Quantity: 0.5 mg/vial

Description: Mouse monoclonal antibody to human Granulocyte Macrophage Colony Stimulating Factor (GM-CSF)

Purification: Protein G affinity purified

Product Type: Primary antibody, Matched Antibody Pair-Capture Antibody

Target Protein: Human GM-CSF

Immunogen: Purified recombinant human GM-CSF

Fusion Myeloma: Sp2/0-Ag14

Specificity: This monoclonal antibody reacts with natural and recombinant human GM-CSF.

Species Reactivity: Human, others not tested

Cross-Reactivity: Does not show any cross reaction with other human cytokines or growth factors tested such as M-CSF, G-CSFR, IL-8, IL-16, IL-1 β , TGF- β 1 and TNF- α .

Host / Isotype: Mouse, IgG1 Kappa

Formulation: Lyophilized from 0.01M K₂HPO₄ – KH₂PO₄ buffer, pH = 7.0

Reconstitution: Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.

Storage: Store at -20°C

Research Area: Hematopoiesis, infection

Background: GM-CSF is an extracellular homodimer polyprotein, functioning as a

hematopoietic growth factor and immune modulator. It can be produced and act upon a variety of cell types, including T-lymphocytes, B-lymphocytes, monocytes/macrophages, endothelial cells, fibroblasts, stromal cells, mesothelial cells, keratinocytes, osteoblasts, uterine epithelial cells, synoviocytes, mast cells and various solid tumors. GM-CSF stimulates stem cells to produce granulocytes and monocytes to cope with infection. Recombinant GM-CSF has been applied to boost white blood cell in cancer patients after chemotherapy and may also be useful as an immune tonic for anemia and AIDS patients.

Applications: **ELISA:** This antibody can be used as a capture antibody in sandwich ELISA applications for human GM-CSF detection in combination with a monoclonal tracer/detection antibody (HRP-conjugated, Cat. No.: MO-C40090T, or Biotin Conjugated, Cat. No.: MO-C40090TB). Suggested Capture Coating Dose: 0.3 μ g/well; Substrate: TMB.

If the above suggested conditions are followed approximately 2pg/mL of GM-CSF in serum/plasma or medium can be detected.

Western Blot

References: If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

This product is for **LABORATORY RESEARCH USE** and further manufacture **ONLY**, and cannot be administrated to human and animals for use in diagnostic and therapeutic procedures.

Manufactured by ANOGEN - A Division of YES Biotech Laboratories Ltd.