



HRP Conjugated Mouse Anti-Human GM-CSF Monoclonal Antibody Datasheet

Product Name: HRP conjugated mAb anti-human GM-CSF **Clone No.:** 429

Catalogue No.: MO-C40090T **Quantity:** 0.2 mL/vial

Description: Horseradish peroxidase (HRP) conjugated mouse monoclonal antibody to human Granulocyte Macrophage Colony Stimulating Factor (GM-CSF)

Purification: Protein G affinity purified

Product Type: **Tracer** antibody in matched antibody pair, HRP conjugated.

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

Storage Buffer Formulation: Mixture of 50% glycerol and 50% PH7.2 0.01M PBS. Final PH = 7.0 \pm 0.1.

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:** In combination with a monoclonal capture antibody clone 59 (Cat. No.: MO-C40090B), this HRP conjugated antibody can be used as a tracer antibody in sandwich ELISA applications for human GM-CSF detection, and approximately 2pg/mL of GM-CSF in serum/plasma or medium can be detected with an assay range of 0-500pg/mL.

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.

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