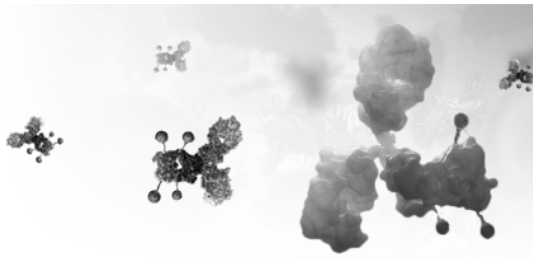

# Hi-Puri™ Mouse Anti-Human GM-CSF Monoclonal antibody, clone F1 (DMAB-CS25832)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

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| **Product Overview** | The human auto-antibody F1 and the mouse monoclonal antibody 4D4 are two neutralizing antibodies. The F1 and 4D4 Fabs have distinct and non-overlapping binding sites on GM-CSF, both of these antibodies will interfere with the cytokine's engagement of GMRα (the interface between the cytokine and its alpha receptor subunit is defined as Site 1). |
| **Specificity** | F1 Fab recognizes the β2-strand on GM-CSF. |
| **Target** | Human GM-CSF |
| **Immunogen** | Human GM-CSF |
| **Isotype** | IgG |
| **Source/Host** | Mouse |
| **Species Reactivity** | Human |
| **Clone** | F1 |
| **Purification** | >90% determined by SDS-PAGE |
| **Conjugate** | Unconjugated |
| **Applications** | Suitable for use in Neut, Inhib, FC, ELISA.<br>Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded. |
| **Format** | Liquid |

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

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| **Concentration** | lot specific |
| **Size** | 200 μg, 1 mg |
| **Buffer** | PBS (endotoxin < 1EU/mg, lower endotoxin levels may also be offered upon request) |
| **Preservative** | None |
| **Storage** | Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles. |
| **Ship** | Dry ice |

# BACKGROUND

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| **Introduction** | Granulocyte macrophage colony-stimulating factor (GM-CSF) was originally identified as a hematopoietic growth factor based on its property to promote macrophage and granulocyte colony formation in vitro. GM-CSF-/- mice, however, show unperturbed steady-state cell counts in peripheral blood and bone marrow progenitor cells, indicating that GM-CSF is not an essential growth factor for basal hematopoiesis. Increasingly, GM-CSF is recognized to act on mature cells of the myeloid linage to promote differentiation, activation and survival of monocytes/macrophages, granulocytes and dendritic cells. GM-CSF depletion by means of neutralizing antibodies resulted in anti-inflammatory effects in several animal models of autoimmune diseases like rheumatoid arthritis and multiple sclerosis. Thus, GM-CSF is considered as a promising target in inflammatory diseases. |
| **Keywords** | Granulocyte-macrophage colony-stimulating factor; GM-CSF |

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