

**MONOCLONAL ANTIBODY TO
MOUSE GRANULOCYTE MACROPHAGE COLONY
STIMULATING FACTOR (GM-CSF)
Clone MP1-22E9**



Catalog nr	HM1006b (lot number and expiry date are indicated on the label)						
Description	<p>The antibody is specific for natural and recombinant mouse GM-CSF. It inhibits the induction of the proliferation of BCL₁ cells by GM-CSF.</p> <p>GM-CSF is a 23 kDa glycoprotein with diverse effects on immune and non-immune cells. It induces differentiation of granulocyte, macrophage and eosinophil precursor cells. Proliferation of monocyte-macrophages, T lymphocytes, keratinocytes and endothelial cells is stimulated by GM-CSF. In addition, GM-CSF alters the functional properties of mature granulocytes, macrophages, eosinophils and basophils.</p> <p>GM-CSF is produced by T lymphocytes, macrophages and several cell types in extramedullary sites, where it may act in a paracrine manner to regulate the local response to antigenic challenge.</p>						
Species	Rat IgG _{2a}						
Formulation	Lyophilized product in PBS, containing 500 µg. Reconstitute the vial by injection of 0.5 ml sterile distilled or de-ionized water (Caution: vial is under vacuum).						
Application	The antibody can be used for inhibition of biological activity of GM-CSF in functional studies and for immuno assay. Furthermore the antibody is useful for immunoprecipitation, staining of frozen sections, western blotting and for intracellular staining of permeabilized cells.						
Use	For immunohistology and Western blotting dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:10. For inhibition of biological activity in vitro approximately 2.5 µg/ml MP1-22E9 neutralizes 10 µg/ml GM-CSF.						
Storage and stability	Lyophilized product should be stored at 4°C. Store stock solution in aliquots at -20°C. Repeated freeze and thaw cycles will cause loss of activity. Under recommended storage conditions, product is stable for one year.						
Precautions	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and Federal rules in the use of this product. Hbt is not responsible for any patent infringements that might result with the use of or derivation of this product.						
References	<ol style="list-style-type: none">1. O'Garra, A et al; The BCL1 B lymphoma responds to IL-4, IL-5, and GM-CSF. Cell Immunol 1989, 123: 1892. Ruef, C et al; Granulocyte-macrophage colony-stimulating factor: pleiotropic cytokine with potential clinical usefulness. Rev Infect Dis 1990, 12: 41						
Also available	<table><tr><td>HM1006a</td><td>Monoclonal antibody against Mouse GM-CSF, clone MP1-22E9; 100 µg</td></tr><tr><td>HM1007a</td><td>Monoclonal antibody against Mouse GM-CSF, clone MP1-31G6; 100 µg</td></tr><tr><td>HM1007b</td><td>Monoclonal antibody against Mouse GM-CSF, clone MP1-31G6; 500 µg</td></tr></table>	HM1006a	Monoclonal antibody against Mouse GM-CSF, clone MP1-22E9; 100 µg	HM1007a	Monoclonal antibody against Mouse GM-CSF, clone MP1-31G6; 100 µg	HM1007b	Monoclonal antibody against Mouse GM-CSF, clone MP1-31G6; 500 µg
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