



# Anti-Mouse GM-CSF

20150223ML



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>103-P06</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant murine GM-CSF (murine GM-CSF). Anti-murine GM-CSF specific antibody was purified by affinity chromatography employing immobilized murine GM-CSF matrix.

## Target Background

<b>Synonyms (Target):</b>	Csf2, Csfgm; GM-CSF; Gm-CSf; MGI-IGM
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GM-CSF is a hematopoietic growth factor that stimulates the development of neutrophils and macrophages and promotes the proliferation and development of early erythroid megakaryocytic and eosinophilic progenitor cells. It is produced in endothelial cells, monocytes, fibroblasts and T-lymphocytes. GM-CSF inhibits neutrophil migration and enhances the functional activity of the mature end-cells. The human and murine molecules are species-specific and exhibit no cross-species reactivity. Recombinant murine GM-CSF is a 14.2 kDa globular protein consisting of 124 amino acids residues.

### Database References Target

<b>Protein RefSeq:</b>	NP_034099.2
<b>Uniprot ID:</b>	P01587
<b>mRNA RefSeq:</b>	NM_009969.4

## Product Specifications

<b>Species reactivity</b>	Mouse
<b>Clone/Ab feature</b>	Rabbit IgG
<b>Cross reactivity</b>	Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal Antibody
<b>Purification</b>	Antigen-affinity purified
<b>Immunogen</b>	Recombinant mouse GM-CSF
<b>Formulation</b>	lyophilized from PBS
<b>Reconstitution buffer</b>	water

**Reconstitution:** Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

**Stability:** The lyophilized antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

## Applications

### Neutralization:

To yield one-half maximal inhibition [ND<sub>50</sub>] of the biological activity of murine GM-CSF (0.60 ng/ml), a concentration of 0.012 - 0.02 µg/ml of this antibody is required.

### ELISA:

To detect murine GM-CSF by direct ELISA (using 100 µl/well antibody solution) a concentration of at least 0.5 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of 0.2 - 0.4 ng/well of recombinant murine GM-CSF.

### Western Blot:

To detect murine GM-CSF by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 mg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant murine GM-CSF is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**