

# Rat M-CSF Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 427406 Catalog Number: MAB5364

DESCRIPTION			
Species Reactivity	Rat  Detects rat M-CSF in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mouse M CSF and recombinant human M-CSF is observed.		
Specificity			
Source	Monoclonal Mouse IgG <sub>1</sub> Clone # 427406		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant rat M-CSF Glu33-Glu261 Accession # Q8JZQ0		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

### APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	Recombinant Rat M-CSF

## PREPARATION AND STORAGE

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Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.  *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Chinning	The product is chipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below	
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	

#### Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
   6 months, -20 to -70 °C under sterile conditions after reconstitution.

#### BACKGROUND

M-CSF, also known as CSF-1, is a four-α-helical-bundle cytokine that is essential for survival, proliferation and differentiation of macrophages and osteoclast progenitors. M-CSF is produced by fibroblasts, activated macrophages, endometrial secretory epithelium, bone marrow stromal cells and activated endothelial cells. Full-length rat M-CSF transcripts encode a 534 amino acid (aa) type I transmembrane mature protein. In humans this encodes a 70 kDa protein that forms covalent homodimers. Human 22 kDa, 43 kDa and proteoglycan-modified 200 kDa secreted forms and 34 kDa transmembrane forms may also occur in rats. Mature rat M-CSF shares 89% and 74% aa identity with mouse and human M-CSF, respectively, within the first 229 aa.

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