

For Research Use Only

# NeutraKine®M-CSF Monoclonal antibody, PBS Only (Capture)



Catalog Number: 69033-1-PBS

## Basic Information

<b>Catalog Number:</b> 69033-1-PBS	<b>GenBank Accession Number:</b> 1435	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 1mg/ml	<b>GeneID (NCBI):</b> 1435	<b>CloneNo.:</b> 4C6C5
<b>Source:</b> Mouse	<b>Full Name:</b> colony stimulating factor 1 (macrophage)	<b>Affinity:</b> $K_D = 8.48 \times 10^{-9}$
<b>Isotype:</b> IgG1		$K_{off} = 4.75 \times 10^{-4}$
<b>Immunogen Catalog Number:</b> HZ-1192		$K_{on} = 5.60 \times 10^4$

## Applications

**Tested Applications:**  
ELISA, Sandwich ELISA, Neutralization, Indirect ELISA

**Species Specificity:**  
Human

## Background Information

M-CSF plays an essential role in the regulation of survival, proliferation, and differentiation of hematopoietic precursor cells, especially mononuclear phagocytes. M-CSF promotes the release of proinflammatory chemokines and thereby plays an important role in innate immunity and in inflammatory processes. It also plays an important role in the regulation of osteoclast proliferation and differentiation, the regulation of bone resorption, and is required for normal bone development. On the cellular level, M-CSF promotes reorganization of the actin cytoskeleton, regulates the formation of membrane ruffles, cell adhesion, and cell migration, and plays a role in lipoprotein clearance.

This antibody is used to neutralize the bioactivity of M-CSF.

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

For technical support and original validation data for this product please contact:

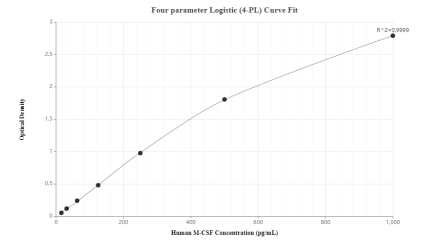
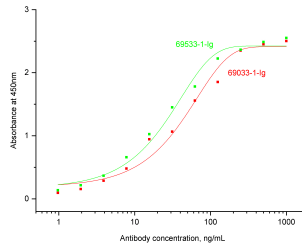
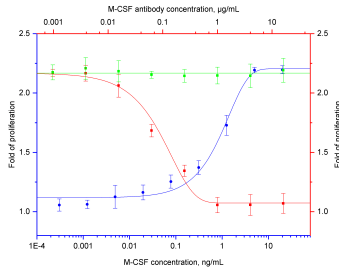
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Recombinant human M-CSF (Cat.NO. HZ-1192) stimulates the proliferation of OCI-AML5 cells in a dose-dependent manner (blue curve, refer to bottom X-left Y). The activity of human M-CSF (5 ng/mL) is neutralized by mouse anti-human M-CSF monoclonal antibody 69033-1-Ig at serial dose (red curve, refer to top X-right Y). The ND50 is typically 0.1-0.4  $\mu$ g/mL. The control mouse anti-human M-CSF monoclonal antibody 69533-1-Ig could recognize human M-CSF, but could not neutralize human M-CSF

Indirect ELISA was carried out by coating recombinant Human M-CSF (Cat.NO. HZ-1192) at 70 ng/well followed by blocking and adding serial diluted M-CSF antibody 69033-1-Ig and 69533-1-Ig respectively. Signal was developed with TMB and stopped by H2SO4. Signal strength was measured by absorbance at 450 nm. This data was developed using the same antibody clone with 69033-1-PBS in a different storage buffer formulation.

Sandwich ELISA standard curve of MP50033-1, MCSF Monoclonal Matched Antibody Pair - PBS Only. 69033-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard HZ-1192. 68662-1-PBS was HRP conjugated as the detection antibody. Range: 15.6-1000 pg/mL