

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

Catalog Number: 69033-1-PBS

Basic Information

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

Applications

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

Species Specificity:
Human

Background Information

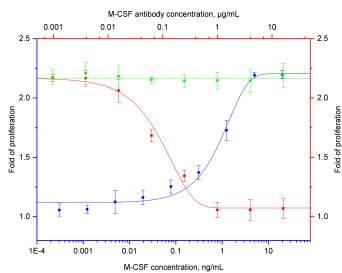
M-CSF plays an essential role in the regulation of survival, proliferation, and differentiation of hematopoietic precursor cells, especially mononuclear phagocytes. M-CSF promotes the release of proinflammatory chemokines and thereby plays an important role in innate immunity and in inflammatory processes. 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.

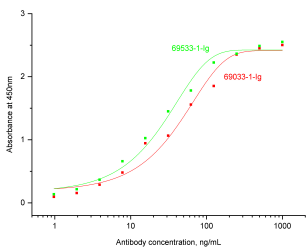
Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS Only

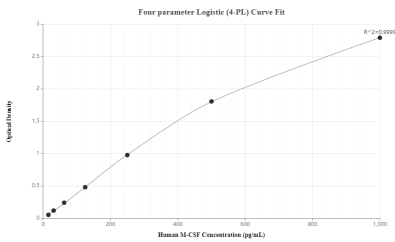
Selected Validation Data



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 µg/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