

Product datasheet

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ARG66021 anti-M-CSF antibody

Package: 50 μg Store at: -20°C

Summary

Product Description Goat Polyclonal antibody recognizes M-CSF

Tested Reactivity Ms

Tested Application ELISA, Neut, WB

Host Goat

Clonality Polyclonal

Isotype IgG

Target Name M-CSF

Species Mouse

Immunogen E. coli derived recombinant Mouse M-CSF.

(MKEVSEHCSH MIGNGHLKVL QQLIDSQMET SCQIAFEFVD QEQLDDPVCY LKKAFFLVQD IIDETMRFKD NTPNANATER LQELSNNLNS CFTKDYEEQN KACVRTFHET PLQLLEKIKN FFNETKNLLE KDWNIFTKNC

NNSFAKCSSR DVVTKP)

Conjugation Un-conjugated

Alternate Names Macrophage colony-stimulating factor 1; CSF-1; Lanimostim; M-CSF; MCSF

Application Instructions

Application table	Application	Dilution
	ELISA	Sandwich: 0.5 - 2.0 μg/ml with ARG66022 as a detection antibody
	Neut	0.05 - $0.08~\mu g/ml$ (To yield [ND50] of the biological activity of mM-CSF (1.5 ng/ml))
	WB	0.1 - 0.2 μg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Affinity purification with immunogen.

Buffer PBS (pH 7.2)

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links <u>GeneID: 12977 Mouse</u>

Swiss-port # P07141 Mouse

Gene Symbol Csf1

Gene Full Name colony stimulating factor 1 (macrophage)

Background The protein encoded by this gene is a cytokine that controls the production, differentiation, and

function of macrophages. The active form of the protein is found extracellularly as a disulfide-linked homodimer, and is thought to be produced by proteolytic cleavage of membrane-bound precursors. The encoded protein may be involved in development of the placenta. Alternate splicing results in

multiple transcript variants. [provided by RefSeq, Sep 2011]

Function Cytokine that plays an essential role in the regulation of survival, proliferation and differentiation of

hematopoietic precursor cells, especially mononuclear phagocytes, such as macrophages and monocytes. Promotes the release of proinflammatory chemokines, and thereby plays an important role in innate immunity and in inflammatory processes. Plays an important role in the regulation of osteoclast proliferation and differentiation, the regulation of bone resorption, and is required for normal bone development. Required for normal male and female fertility. Promotes reorganization of the actin cytoskeleton, regulates formation of membrane ruffles, cell adhesion and cell migration. Plays

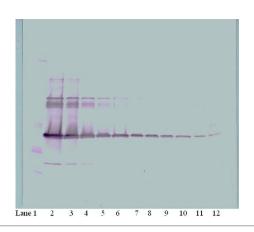
a role in lipoprotein clearance. [UniProt]

Calculated Mw 60 kDa

PTM N- and O-glycosylated. Glycosylation and proteolytic cleavage yield different soluble forms. One high

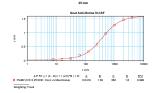
molecular weight soluble form is a proteoglycan containing chondroitin sulfate. O-glycosylated with core 1 or possibly core 8 glycans. Isoform 1 is N- and O-glycosylated. Isoform 3 is only N-glycosylated.

Images



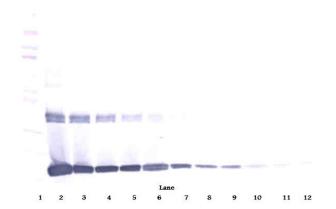
ARG66021 anti-M-CSF antibody WB image

Western blot: 250 - 0.24 ng of Mouse M-CSF stained with ARG66021 anti-M-CSF antibody, under non-reducing conditions.



ARG66021 anti-M-CSF antibody standard curve image

Sandwich ELISA: ARG66021 anti-M-CSF antibody as a capture antibody at 0.5 - 2.0 $\mu g/ml$ combined with ARG66022 anti-M-CSF antibody (Biotin) as a detection antibody. Results of a typical standard run with optical density reading at 405 - 650 nm.



ARG66021 anti-M-CSF antibody WB image

Western blot: 250 - 0.24 ng of Mouse M-CSF stained with ARG66021 anti-M-CSF antibody, under reducing conditions.