

Anti-M-CSF Antibody
Catalog # ABO12249**Specification****Anti-M-CSF Antibody - Product Information**

Application	IHC-P, E
Primary Accession	P07141
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Macrophage colony-stimulating factor 1(CSF1) detection. Tested with IHC-P, ELISA in Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-M-CSF Antibody - Additional Information**Gene ID 12977****Other Names**

Macrophage colony-stimulating factor 1, CSF-1, MCSF, Processed macrophage colony-stimulating factor 1, Csf1, Csfm

Calculated MW

60649 MW KDa

Application Details

ELISA , 0.1-0.5 µg/ml, Mouse, -
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Mouse, Rat, By Heat

Subcellular Localization

Cell membrane ; Single-pass type I membrane protein .

Protein Name

Macrophage colony-stimulating factor 1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

E. coli-derived mouse MCSF recombinant protein (Position: K33-E262). Mouse MCSF shares 80.9 % and 88.6% amino acid (aa) sequence identity with human and rat MCSF, respectively.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-M-CSF Antibody - Protein Information

Name Csf1

Synonyms Csfm

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 pro-inflammatory 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.

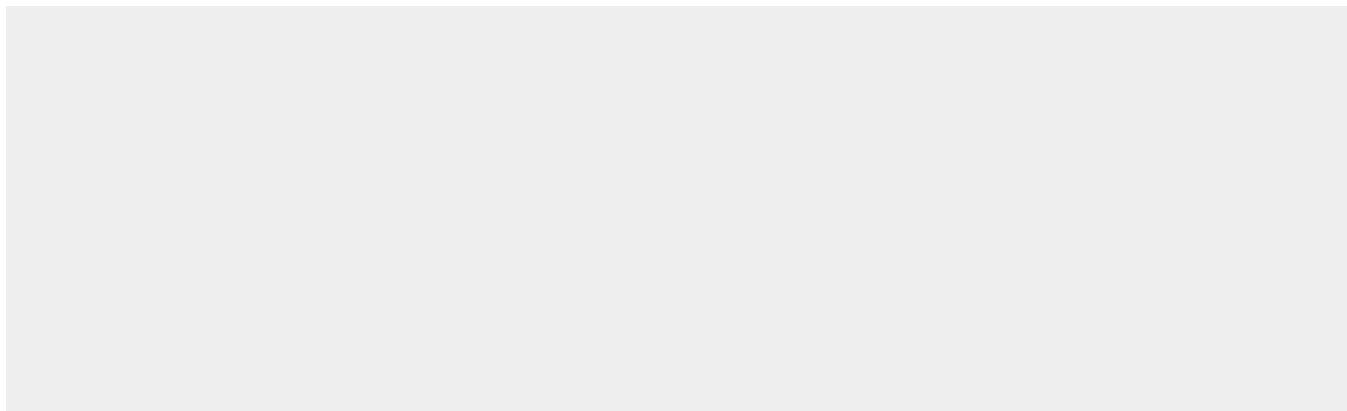
Cellular Location

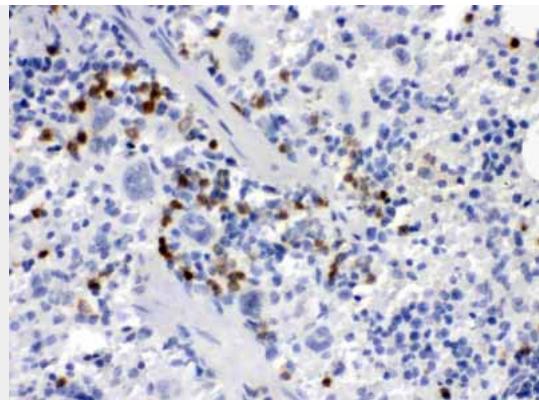
Cell membrane; Single-pass type I membrane protein

Anti-M-CSF Antibody - Protocols

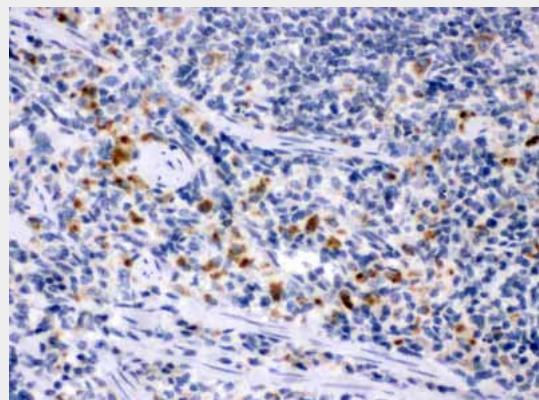
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-M-CSF Antibody - Images



Anti- MCSF Picoband antibody, ABO12249, IHC(P)IHC(P): Mouse Spleen Tissue



Anti- MCSF Picoband antibody, ABO12249, IHC(P)IHC(P): Rat Spleen Tissue

Anti-M-CSF Antibody - Background

M-CSF (or CSF-1) is a hematopoietic growth factor that is involved in the proliferation, differentiation, and survival of monocytes, macrophages, and bone marrow progenitor cells. M-CSF affects macrophages and monocytes in several ways, including stimulating increased phagocytic and chemotactic activity, and increased tumour cell cytotoxicity. The role of M-CSF is not only restricted to the monocyte/macrophage cell lineage. By interacting with its membrane receptor (CSF1R or M-CSF-R encoded by the c-fms proto-oncogene), M-CSF also modulates the proliferation of earlier hematopoietic progenitors and influences numerous physiological processes involved in immunology, metabolism, fertility and pregnancy.

Anti-M-CSF Antibody - Citations

- [Single-Cell RNA Sequencing Reveals a Dynamic Stromal Niche That Supports Tumor Growth](#)