

Anti-MCSF/CSF1 Antibody

Catalog Number: PB9562

About Csf1

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 influence numerous physiological processes involved in immunology, metabolism, fertility and pregnancy.

Overview

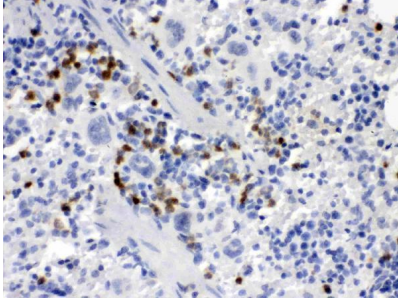
Product Name	Anti-MCSF/CSF1 Antibody
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-MCSF/CSF1 Antibody catalog # PB9562. Tested in ELISA, IHC applications. This antibody reacts with Mouse, Rat.
Application	ELISA, IHC
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , and 0.05 mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P07141

Technical Details

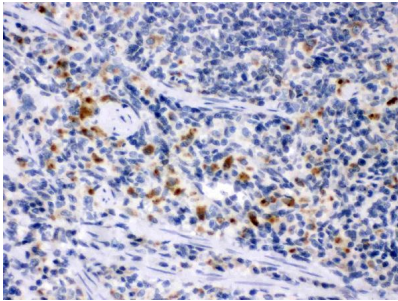
Immunogen	E. coli-derived mouse MCSF recombinant protein (Position: K33-E262). Mouse MCSF shares 80.9% and 88.6% amino acid (aa) sequence identity with human and rat MCSF, respectively.
Recommended Detection Systems	Boster recommends HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG

Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	ELISA, 0.1-0.5ug/ml, - Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Mouse, Rat

Anti-MCSF/CSF1 Antibody (PB9562) Images



IHC analysis of MCSF using anti-MCSF antibody (PB9562). MCSF was detected in a paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 ug/ml rabbit anti-MCSF Antibody (PB9562) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



IHC analysis of MCSF using anti-MCSF antibody (PB9562). MCSF was detected in a paraffin-embedded section of rat spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 ug/ml rabbit anti-MCSF Antibody (PB9562) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

1 Publications Citing This Product

1. PubMed ID: 24907005, Pei Bx, Sun Bs, Zhang Zf, Wang Al, Ren P. J Thorac Cardiovasc Surg. 2014 Oct;148(4):1208-1216.E2. Doi: 10.1016/J.Jtcvs.2014.05.003. Epub 2014 May 9. Interstitial Tumor-Associated Macrophages Combined With Tumor-Derived Colony-Stimulating Factor-1 ...

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