

Technical Data Sheet

Purified NA/LE Rat Anti-Mouse CSF-1

Product Information

Material Number:	557858
Alternate Name:	M-CSF
Size:	0.5 mg
Concentration:	1.0 mg/ml
Clone:	5A1
Immunogen:	Purified mouse CSF-1
Isotype:	Rat IgG1, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2 μ m sterile filtered. Endotoxin level is ≤ 0.01 EU/ μ g (≤ 0.001 ng/ μ g) of protein as determined by the LAL assay.

Description

The 5A1 antibody reacts with the macrophage-specific colony stimulating factor (known as CSF-1 or M-CSF) protein. CSF-1 is a hematopoietic growth factor that regulates the survival, proliferation, and differentiation of mononuclear phagocytes. CSF-1 is found to be produced by a vast number of cells including fibroblasts, stromal cells, osteoblasts, activated T cells, macrophages, and B cells.

Preparation and Storage

Store undiluted at 4°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Application Notes

Application

ELISA	Routinely Tested
Neutralization	Tested During Development

Neutralization Activity:

This antibody has been reported to be useful for the neutralization of mouse CSF-1. Neutralization activity may be measured with a proliferation assay using 5 ng/mL mouse CSF-1 to stimulate NFS-60 cells at 1.5×10^6 cells/mL as indicator cells (i.e. preincubation of the antibody with mouse CSF-1 for 60 minutes).

50% Neutralization (ND50) at 70 - 350 ng/mL

80 - 100% Neutralization at 600 - 1250 ng/mL

Suggested Companion Products

Catalog Number	Name	Size	Clone
553921	Purified NA/LE Rat IgG1, κ Isotype Control	0.5 mg	R3-34

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Lokeshwar BL, Lin HS. Development and characterization of monoclonal antibodies to murine macrophage colony-stimulating factor. *J Immunol.* 1988; 15(2):483-488. (Biology)
 Lokeshwar BL, Lin HS. A sandwich enzyme-linked immunoadsorbent assay for detection of murine macrophage colony-stimulating factor (CSF-1). *J Immunol Methods.* 1989; 123(1):123-129. (Biology)
 Nakoinz I, Lee MT, Weaver JF, Ralph P. Differentiation of the IL-3-dependent NFS-60 cell line and adaption to growth in macrophage colony-stimulating factor. *J Immunol.* 1990; 145(3):860-864. (Biology)

BD Biosciences

bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	800.979.9408	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country contact information, visit bdbiosciences.com/contact

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton, Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

Unless otherwise noted, BD, BD Logo and all other trademarks are property of Becton, Dickinson and Company. © 2011 BD

