



Rat Anti-Mouse CSF1 Monoclonal antibody, clone 5A1 (CABT-L4473)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

The 5A1 monoclonal antibody reacts with mouse colony stimulating factor 1 (CSF1) also known as macrophage colony-stimulating factor (M-CSF). CSF1 is a hematopoietic growth factor that is expressed by many different cell types including fibroblasts, stromal cells, osteoblasts, activated T cells, macrophages, and B cells. CSF1 plays a role in regulating the proliferation, differentiation and survival of monocytes, macrophages, and bone marrow progenitor cells. CSF1 produced in vessel walls is thought to contribute to the development and progression of atherosclerosis. The 5A1 antibody has been shown to neutralize CSF1 in vivo.

Target	Mouse CSF1
Immunogen	Purified mouse CSF-1
Isotype	IgG1, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	5A1
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo?CSF1 neutralization
Molecular Weight	150 kDa
Format	0.2 μM filtered liquid. Purified from tissue culture supernatant in an animal free facility

Concentration	Lot specific
Size	5 mg
Buffer	PBS, pH 8.0. Contains no stabilizers or preservatives. [low endotoxin azide-free] Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB01
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	Granulocyte/macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. CSF-1 induces cells of the monocyte/macrophage lineage. It plays a role in immunological defenses, bone metabolism, lipoproteins clearance, fertility and pregnancy.
Keywords	CSF1;colony stimulating factor 1 (macrophage);MCSF;CSF-1;macrophage colony-stimulating factor 1;lanimostim;

GENE INFORMATION

Official Symbol	colony stimulating factor 1 (macrophage)
Synonyms	CSF1; colony stimulating factor 1 (macrophage); MCSF; CSF-1; macrophage colony-stimulating factor 1; lanimostim;
References	Conde, P., et al. (2015). "DC-SIGN(+) Macrophages Control the Induction of Transplantation Tolerance." Immunity 42(6): 1143-1158. PubMed;