

CSF2 monoclonal antibody, clone SPM469

Catalog # MAB15188

Size 100 ug

Specification

Product Description	Rat monoclonal antibody raised against full length recombinant human CSF2.
Immunogen	Recombinant protein corresponding to full length human CSF2.
Host	Rat
Theoretical MW (kDa)	22
Reactivity	Human
Form	Liquid
Purification	Protein A/G purification
Isotype	IgG2a, kappa
Recommend Usage	Flow Cytometry (0.5-1 ug/10 ⁶ cells in 0.1 mL) Immunofluorescence (0.5-1 ug/mL) Immunohistochemistry (Frozen sections) (0.5-1 ug/mL) Immunoprecipitation (0.5-1 ug/500 ug protein lysate) Western Blotting (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS (0.05% BSA, 0.05% sodium azide).
Storage Instruction	Store at 4°C.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry (Frozen sections)

- Immunofluorescence
- Immunoprecipitation
- Flow Cytometry

Gene Info — CSF2

Entrez GeneID [1437](#)

Protein Accession# [P04141](#)

Gene Name CSF2

Gene Alias GMCSF, MGC131935, MGC138897

Gene Description colony stimulating factor 2 (granulocyte-macrophage)

Omim ID [138960](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene is a cytokine that controls the production, differentiation, and function of granulocytes and macrophages. The active form of the protein is found extracellularly as a homodimer. This gene has been localized to a cluster of related genes at chromosome region 5q 31, which is known to be associated with interstitial deletions in the 5q- syndrome and acute myelogenous leukemia. Other genes in the cluster include those encoding interleukins 4, 5, and 13. [provided by RefSeq]

Other Designations colony stimulating factor 2|granulocyte-macrophage colony stimulating factor|molgramostin|sargramostim

Publication Reference

- [Concomitant in vivo production of 19 different cytokines in human tonsils.](#)

Andersson J, Abrams J, Björk L, Funa K, Litton M, Agren K, Andersson U.
Immunology 1994 Sep; 83(1):16.

Application: IHC-Fr, Human, Human tonsils

- [Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples.](#)

Abrams JS, Roncarolo MG, Yssel H, Andersson U, Gleich GJ, Silver JE.

Immunological Reviews 1992 Jun; 127:5.

- [Granulocyte/macrophage colony-stimulating factor and interleukin 3 release from human peripheral blood eosinophils and neutrophils.](#)

Kita H, Ohnishi T, Okubo Y, Weiler D, Abrams JS, Gleich GJ.

The Journal of Experimental Medicine 1991 Sep; 174(3):745.

- [Host-reactive CD4+ and CD8+ T cell clones isolated from a human chimera produce IL-5, IL-2, IFN-gamma and granulocyte/macrophage-colony-stimulating factor but not IL-4.](#)

Bacchetta R, de Waal Malefijt R, Yssel H, Abrams J, de Vries JE, Spits H, Roncarolo MG.

The Journal of Immunology 1990 Feb; 144(3):902.

Pathway

- [Cytokine-cytokine receptor interaction](#)
- [Fc epsilon RI signaling pathway](#)
- [Hematopoietic cell lineage](#)
- [Jak-STAT signaling pathway](#)
- [Natural killer cell mediated cytotoxicity](#)
- [T cell receptor signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Blindness](#)
- [Brain Ischemia](#)

- [Bronchial Hyperreactivity](#)
- [Bronchiolitis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Chlamydia Infections](#)
- [Chorioamnionitis](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Dermatitis](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Erythema Nodosum](#)
- [Esophagitis](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Hypersensitivity](#)
- [Hypertension](#)
- [Infant](#)
- [Inflammation](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Metabolic Syndrome X](#)
- [Migraine Disorders](#)
- [Neoplasms](#)

- [Neovascularization](#)
- [Obesity](#)
- [Obstetric Labor](#)
- [Osteoporosis](#)
- [Pain](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Pulmonary Disease](#)
- [Radiation Injuries](#)
- [Radiation Pneumonitis](#)
- [Recurrence](#)
- [Respiratory Syncytial Virus Infections](#)
- [Rhinitis](#)
- [Sarcoidosis](#)
- [Stroke](#)
- [Thyroid Neoplasms](#)
- [Trachoma](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)