



Anti-GM-CSF (RABBIT) Antibody - 209-401-314

Code: 209-401-314

Size: 100 µg

Product Description: Anti-GM-CSF (RABBIT) Antibody - 209-401-314

Concentration: 1.0 mg/mL

PhysicalState: Lyophilized

Label	Unconjugated
Host	Rabbit
Gene Name	CSF2
Species Reactivity	human
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Reconstitution Volume	100 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	None
Preservative	None
Storage Condition	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Synonyms	rabbit anti-GM-CSF Antibody, GM-CSF, rabbit anti-Colony-stimulating factor, CSF, sargramostim and molgramostin
Application Note	This purified antibody has been tested for use in neutralizations, ELISA and western blotting. Reactivity is also expected in radioimmunoassay and immunohistochemistry. The endotoxin content is estimated to be <10 pg/µl by the LAL method. By western blot a band approximately 14.5 kDa in size corresponding to human GM-CSF protein is expected in the appropriate cell lysate or extract. Specific conditions for reactivity should be optimized by the end user.
Background	Granulocyte Macrophage Colony Stimulating Factor (also known as GM-CSF, Colony-stimulating factor; CSF, sargramostim and molgramostin) is produced in response to a number of inflammatory mediators by mesenchymal cells present in the hemopoietic environment and at peripheral sites of inflammation. Granulocyte Macrophage-CSF is able to stimulate the production of neutrophilic granulocytes, macrophages, and mixed granulocyte-macrophage colonies from bone marrow cells and can stimulate the formation of eosinophil colonies from fetal liver progenitor cells. GM-CSF can also stimulate some functional activities in mature granulocytes and macrophages. GM-CSF receptors show significant homologies with other receptors for hematopoietic growth factors, including IL2-beta, IL-3, IL-6, IL-7, EPO and the Prolactin receptors.
Purity And Specificity	This purified antibody has been heated to 56°C for 30 minutes. In ELISA and other immunoreactive assays, this antibody will recognize both native and recombinant human GM-CSF in cell supernatants and certain body fluids. This antibody is useful for neutralization of human GM-CSF in bioassays. For neutralization, it is recommended to incubate the sample with a 1:400 dilution of the antiserum for at least 4 hours before being tested. A control of similarly diluted normal rabbit IgG is recommended.
Assay Dilutions	User Optimized
ELISA	1:1,000 - 1:5,000
Western Blot	1:500 - 1:2,000
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	This purified antibody was prepared from whole rabbit serum produced by repeated immunizations with full length recombinant human GM-CSF protein.

General Reference

Lee F., Yokota T., Otsuka T., Gemmell L., Larson N., Luh J., Arai K., Rennick D. (1985) Isolation of cDNA for a human granulocyte-macrophage colony-stimulating factor by functional expression in mammalian cells. Proc. Natl. Acad. Sci. U.S.A. 82:4360-4364. Kaushansky K., O'Hara P.J., Berkner K., Segal G.M., Hagen F.S., Adamson J.W. (1986) Genomic cloning, characterization, and multilineage growth-promoting activity of human granulocyte-macrophage colony-stimulating factor. Proc. Natl. Acad. Sci. U.S.A. 83:3101-3105. Cantrell M.A., Anderson D., Cerretti D.P., Price V., McKereghan K., Tushinski R.J., Mochizuki D.Y., Larsen A., Grabstein S., Gillis S., Cosman D. (1985) Cloning, sequence, and expression of a human granulocyte/macrophage colony-stimulating factor. Proc. Natl. Acad. Sci. U.S.A. 82:6250-6254.

Related Products

009-001-314	GM-CSF Human Recombinant Protein - 009-001-314
200-301-268	Anti-AKT pS473 (MOUSE) Monoclonal Antibody - 200-301-268
200-301-A45	Anti-STAT5 pY694 (MOUSE) Monoclonal Antibody - 200-301-A45
209-401-B92	Anti-Human IL-3 (RABBIT) Antibody - 209-401-B92

Related Links

NCBI - P04141.1

<http://www.ncbi.nlm.nih.gov/protein/P04141.1>

UniProtKB - P04141

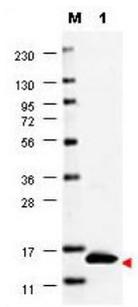
<http://www.uniprot.org/uniprot/P04141>

GenElD - 1437

Images

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Western blot using Rockland's anti-Human GM-CSF antibody shows detection of a band ~15 kDa in size corresponding to recombinant human GM-CSF (lane 1). Molecular weight markers are also shown (M). After transfer, the membrane was blocked overnight with 3% BSA in TBS followed by reaction with primary antibody at a 1:1,000 dilution. Detection occurred using DyLight™649 conjugated anti-Rabbit IgG (p/n 611-143-122) secondary antibody diluted 1:20,000 in blocking buffer (p/n MB-070). Image was captured using VersaDoc™ MP 4000 imaging system (Bio-Rad).



Disclaimer

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