Rabbit Anti-Human Colony Stimulating Factor 3(Granulocyte) Monoclonal Antibody

Cat. No. CAB11519RH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Human Human Colony Stimulating Factor 3(Granulocyte)
Species	Human
Source	Rabbit
Antigen Description	Granulocyte-colony stimulating factor (G-CSF) is a growth factor and an essential cytokine belonging to the CSF family of hormone-like glycoproteins that regulate haematopoietic cell proliferation and differentiation. G-CSF was isolated initially as a factor supporting the growth of colonies of granulocytes in soft agar cultures. Cells of the monocyte/macrophage lineage are among the most prominent sources of G-CSF, but this factor can also be produced by normal cells of mesodermal origin, including vascular endothelial cells, fibroblasts, and mesothelial cells. Production of G-CSF can be induced in vitro in these cells by a wide variety of stimulatory agents, including LPS, TNF, IL-1, IL-3, IL-4, and IFN-γ. G-CSF is likely to play a role in the basal regulation of neutrophil production, and also functions as a primary regulatory factor controlling the neutrophil response to inflammatory stimuli. Furthermore, G-CSF exhibits other biological activities besides the proliferative effects, since G-CSF appears to modulate the distribution of neutrophils and progenitor cells within the body.
Specificity	Human G-CSF. No cross-reactivity with human cell lysate (293 cell line) in WB and

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	ELISA.
Immunogen	Recombinant Human G-CSF Protein
Isotype	Rabbit IgG
Clone	A105
Applications	WB; ELISA
Dilution	Western blot: This antibody can be used at 1-2 μg/mL with the appropriate secondary reagents to detect Human GCSFb in WB. Using a DAB detection system, the detection limit for Human GCSFb is approximately 2 ng/lane under non-reducing conditions and 1 ng/lane under reducing conditions.ELISA: This antibody can be used at 0.1-0.2 μg/mL with the appropriate secondary reagents to detect Human GCSFb. The detection limit for Human GCSFb is approximately 0.00245 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Human G-CSF
Format	0.2 μm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70°C. Preservative-Free.Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	CSF3 colony stimulating factor 3 (granulocyte) [Homo sapiens]

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Official Symbol	CSF3
Synonyms	CSF3; colony stimulating factor 3 (granulocyte); C17orf33,chromosome 17 open reading frame 33 , G CSF, GCSF; granulocyte colony-stimulating factor; filgrastim; granulocyte colony stimulating factor; lenograstim; MGC45931; pluripoietin; GCSF; CSF3OS; C17orf33;
Gene ID	1440
mRNA Refseq	NM_000759
Protein Refseq	NP_000750
MIM	138970
UniProt ID	P09919
Chromosome Location	17q11.2-q12
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Cytokines and Inflammatory Response, organism-specific biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT signaling pathway, conserved biosystem;
Function	cytokine activity; cytokine activity; enzyme binding; granulocyte colony-stimulating factor receptor binding; growth factor activity;

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