G-CSF (CSF3) Antibody – Rat Monoclonal

PRODUCT OVERVIEW

Product Name	G-CSF (CSF3), Monoclonal Antibody
Full Product Name	Rat Anti-Human G-CSF-UNLB
Product Gene Name	anti-CSF3 antibody
Product Synonym Names	Rat Anti-Human G-CSF - Purified, Unlabeled Antibody; Rat Anti-Human G-CSF
Clonality	Monoclonal
Isotype	Rat IgG1 kappa
Clone Number	BVD13-3A5
Host	Rat
Species Reactivity	Human
Form/Format	Purified (UNLB) Antibody
Specificity	Human Granulocyte-Colony Stimulating Factor (G-CSF)1, 2 (This is a neutralizing antibody)
Preparation and Storage	The purified (UNLB) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added. Store at 2- 8 degree C. The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. Aliquot and store at or below -20 degree C. Protect conjugated forms from light. Aliquot and freeze the low endotoxin, azide-free product at -20 degree C immediately upon receipt. Each reagent is stable for the period shown on the bottle label if stored as directed.
Molecular Weight	22,293 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (38171614..38174066). Location: 17q11.2-q12
OMIM	138970
3D Structure	ModBase 3D Structure for P09919
Immunogen	E. coli-expressed recombinant human G-CSF
Characterization	To ensure acceptable performance, each batch of product is tested in a sandwich ELISA to conform to characteristics of a standard reference reagent.
Applications Tested/Suitable for anti-CSF3 antibody	ELISA; Western Blot
Application Notes for anti-CSF3 antibody	**Research Application(s):** ELISA Capture: BVD13-3A5 monoclonal antibody is useful as a capture antibody in a sandwich ELISA for quantifying human G-CSF protein levels.1, 2 Purified BVD13-3A5 antibody should be paired with biotinylated BVD11-37G10 antibody as the detection antibody, with purified recombinant human G-CSF as the standard. Western Blotting: The purified BVD13-3A5 antibody is also useful for Western blotting applications. A concentration of 1-5 ug/mL (in conjunction with AP-labeled Goat Anti-Rat-Ig) has been found to enable detection of <= 100 ng/lane of recombinant human G-CSF under reducing conditions. Neutralization: The LE/AF form of BVD13-3A5 can be used for neutralizing human G-CSF bioactivity. A suitable LE/AF Rat IgG1 should be used as an isotype control. Since applications vary, each investigator should determine the optimal concentration appropriate for individual applications.
Related Product Information for anti-CSF3 antibody	MBS670057 is an antibody targeting CSF3. Also known as Rat Anti-Human G-CSF-UNLB. Reactive in Human. Host: Rat.

Product References and Citations for anti-CSF3 antibody	1. Abrams, J. 1995. Immunoenzymetric assay of mouse and human cytokines using NIP-labeled anti-cytokine antibodies. In Current Protocols in Immunology (J. Coligamn, A. Kruisbeek, D. Margulies, E. Shevach, W. Strober, eds.). John Wiley and Sons, New York. Unit 6.20. 2. Abrams, J.S., M.-G. Roncarolo, H.. Yssel, U. Andersson, G.J. Gleich, and J.E., Silver. 1992. Strategies of anti-cytokine monoclonal antibody development: Immunoassay of IL-10 and IL-5 in clinical samples. Immunol. Rev. 127:5-24.
Other Notes	Small volumes of anti-CSF3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CSF3. It may not necessarily be applicable to this product.

NCBI GI #	297660573
NCBI GeneID	1440
UniProt Primary Accession #	P09919
UniProt Related Accession #	P09919; Q5FBY7; Q6FH65; Q8N4W3
NCBI Official Full Name	granulocyte colony-stimulating factor
NCBI Official Synonym Full Names	colony stimulating factor 3 (granulocyte)
NCBI Official Symbol	CSF3
NCBI Official Synonym Symbols	GCSF; CSF3OS; C17orf33; MGC45931
UniProt Protein Name	Granulocyte colony-stimulating factor
UniProt Synonym Protein Names	Pluripoietin
Protein Family	Granulocyte colony-stimulating factor
UniProt Gene Name	CSF3
UniProt Synonym Gene Names	C17orf33; GCSF
UniProt Entry Name	CSF3_HUMAN
NCBI Protein Information	granulocyte colony-stimulating factor; filgrastim; lenograstim; pluripoietin; OTTHUMP00000164325; OTTHUMP00000164326; OTTHUMP00000164327; OTTHUMP00000164328
NCBI Summary for CSF3	The protein encoded by this gene is a cytokine that controls the production, differentiation, and function of granulocytes. The active protein is found extracellularly. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq]
UniProt Comments for CSF3	Function: 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. This CSF induces granulocytes. Subunit structure: Monomer. Subcellular location: Secreted. Post-translational modification: O-glycan consists of Gal-GalNAc disaccharide which can be modified with up to two sialic acid residues (done in recombinantly expressed G-CSF from CHO cells). Pharmaceutical use: Available under the names Neupogen or Granulokine (Amgen/Roche) and Granocyte (Rhone-Poulenc). Used to treat neutropenia (a disorder characterized by an extremely low number of neutrophils in blood). Sequence similarities: Belongs to the IL-6 superfamily. Caution: Ref.5 misquotes the gene name as "CSF1".

Research Articles on CSF3	**1.** potential biomarker to document the local pre-conception environment for assisted fertilization
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