

Datasheet: AHP1031

BATCH NUMBER 172209

Description:	RABBIT ANTI HUMAN G-CSF
Specificity:	G-CSF
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			0.25ug/ml
ELISA	▪			0.5ug/ml - 2ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2ug/ml
Functional Assays	▪			0.04 - 0.06ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1)This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species

Human

Product Form

Purified IgG - lyophilized

Reconstitution

Reconstitute with 0.1ml distilled water. For long term storage the addition of 0.09% sodium azide is recommended. NB. For functional studies do not add azide.

Antiserum Preparation

Antisera to human G-CSF were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml after reconstitution
Immunogen	Recombinant human G-CSF.
External Database Links	<p>UniProt: P09919 Related reagents</p> <p>Entrez Gene: 1440 CSF3 Related reagents</p>
Synonyms	C17orf33, GCSF
RRID	AB_2083737
Specificity	<p>Rabbit anti Human G-CSF antibody recognizes human G-CSF (Granulocyte colony-stimulating factor), a 19.6kDa haematopoietic growth factor and member of the CSF family of hormone-like glycoproteins, which stimulates the development of bone marrow progenitor cells and in particular those committed to neutrophil lineage.</p> <p>The ability of G-CSF to stimulate the proliferation/differentiation and function of neutrophil granulocyte progenitor cells and survival of mature neutrophils, has resulted in G-CSF becoming an important factor in patient treatment following allogeneic (bone marrow/stem cell) transplantation and chemotherapy.</p> <p>To yield one-half maximal inhibition [ND₅₀] of the biological activity of hG-CSF (0.5 ng/ml), a concentration of 0.04-0.06 ug/ml of this antibody is required.</p>
ELISA	This purified human G-CSF antibody may be used in an indirect ELISA or as the capture reagent in a sandwich ELISA with our biotinylated human G-CSF antibody (AHP1031B) as the detection reagent and recombinant human G-CSF as the standard.
Histology Positive Control Tissue	Human angiosarcoma
References	1. Lonshakov, D.V. <i>et al.</i> (2024) Study of pH-Dependent Kinetics of Filgrastim Pegylation with Succinimide Derivatives of Poly(Ethylene Glycol) and Comparison of the Properties of Pegylated Forms Obtained Under Various Conditions Pharmaceutical Chemistry Journal . 58 (2): 306-19.
Further Reading	1. Hill, C.P. <i>et al.</i> (1993) The structure of granulocyte-colony-stimulating factor and its

relationship to other growth factors. [Proc Natl Acad Sci U S A. 90 \(11\): 5167-71.](#)
2. Morton, J. *et al.* (2001) Granulocyte-colony-stimulating factor (G-CSF)-primed allogeneic bone marrow: significantly less graft-versus-host disease and comparable engraftment to G-CSF-mobilized peripheral blood stem cells. [Blood. 98 \(12\): 3186-91.](#)

Storage	This product is shipped at ambient temperature. Prior to reconstitution store at -20°C. After reconstitution store at -20°C. This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10294 available at: https://www.bio-rad-antibodies.com/SDS/AHP1031
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M445833:250922'

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