

## Datasheet: AHP1031B

**BATCH NUMBER 151173**

<b>Description:</b>	RABBIT ANTI HUMAN G-CSF:Biotin
<b>Specificity:</b>	G-CSF
<b>Format:</b>	Biotin
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	50 µg

### 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin	▪			
ELISA	▪			0.25 - 1.0ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2ug/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.

#### Target Species

Human

#### Product Form

Purified IgG conjugated to Biotin - lyophilised

#### Reconstitution

Reconstitute with 0.5ml sterile PBS containing 0.1% Bovine Serum Albumin. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% sodium azide is recommended.

#### 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

<b>Preservative Stabilisers</b>	None present
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml after reconstitution.
<b>Immunogen</b>	<a href="#">Recombinant human G-CSF</a>
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P09919</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">1440</a>    CSF3    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	C17orf33, GCSF
<b>RRID</b>	AB_2083735
<b>Specificity</b>	<p><b>Rabbit anti Human G-CSF antibody</b> 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 [ND<sub>50</sub>] 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>
<b>ELISA</b>	This biotinylated human G-CSF antibody may be used in a direct ELISA or as the detection reagent in a sandwich ELISA with our <a href="#">purified human G-CSF antibody</a> (AHP1031) as the capture reagent and <a href="#">recombinant human G-CSF</a> (PHP082B) as the standard.
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>Hill, C.P. <i>et al.</i> (1993) The structure of granulocyte-colony-stimulating factor and its relationship to other growth factors. <a href="#">Proc Natl Acad Sci U S A. 90 (11): 5167-71.</a></li> <li>Morton, J. <i>et al.</i> (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. <a href="#">Blood. 98 (12): 3186-91.</a></li> </ol>
<b>Storage</b>	<p>Prior to reconstitution store at -20°C.  After reconstitution store at -20°C.</p> <p>This product should be stored undiluted. Storage in frost-free freezers is not</p>

recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 6 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10162 available at: <https://www.bio-rad-antibodies.com/SDS/AHP1031B>  
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**Regulatory** For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

'M372460:200706'

**Printed on 02 Jul 2024**

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