

## Datasheet: AHP1031B

<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.

<b>Target Species</b>	Human
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<b>Product Form</b>	Purified IgG conjugated to Biotin - lyophilized
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<b>Reconstitution</b>	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.
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<b>Antiserum Preparation</b>	Antisera to human G-CSF were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
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<b>Buffer Solution</b>	Phosphate buffered saline
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<b>Preservative</b>	None present
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## Stabilisers

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**Carrier Free** Yes

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**Approx. Protein Concentrations** IgG concentration 0.1 mg/ml after reconstitution.

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**Immunogen** [Recombinant human G-CSF](#)

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## External Database Links

### UniProt:

[P09919](#) [Related reagents](#)

### Entrez Gene:

[1440](#) CSF3 [Related reagents](#)

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**Synonyms** C17orf33, GCSF

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**RRID** AB\_2083735

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## Specificity

**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.

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.

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.

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## ELISA

This biotinylated human G-CSF antibody may be used in a direct ELISA or as the detection reagent in a sandwich ELISA with our [purified human G-CSF antibody](#) (AHP1031) as the capture reagent and [recombinant human G-CSF](#) (PHP082B) as the standard.

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## Further Reading

1. Hill, C.P. *et al.* (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.](#)
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## Storage

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.

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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:  
10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

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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)

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