

Datasheet: AHP1031B

Description:	RABBIT ANTI HUMAN G-CSF:Biotin
Specificity:	G-CSF
Format:	Biotin
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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 - lyophilized
---------------------	---

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
------------------------	---------------------------

Preservative	None present
---------------------	--------------

Stabilisers

Carrier Free Yes

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

Immunogen [Recombinant human G-CSF](#)

External Database Links

UniProt:

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

Entrez Gene:

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

Synonyms C17orf33, GCSF

RRID AB_2083735

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 [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.

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.

References

1. Lonshakov, D.V. *et al.* (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. *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.**

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.

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/AHP1031B>
10294

Regulatory For research purposes only

North & South America Tel: +1 800 265 7376
Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700
Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M402160:220718'

Printed on 02 Jul 2024

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)