

Datasheet: AHP1031B

BATCH NUMBER 164892

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 Stabilisers	None present
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 0.1 mg/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_2083735
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 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. <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	<p>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.</p> <p>2. 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. Blood. 98 (12): 3186-91.</p>

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
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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)
'M402160:220718'

Printed on 02 Jul 2024

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