

## Datasheet: AHP1031

**BATCH NUMBER 162063**

|                      |                         |
|----------------------|-------------------------|
| <b>Description:</b>  | RABBIT ANTI HUMAN G-CSF |
| <b>Specificity:</b>  | G-CSF                   |
| <b>Format:</b>       | Purified                |
| <b>Product Type:</b> | Polyclonal Antibody     |
| <b>Isotype:</b>      | Polyclonal IgG          |
| <b>Quantity:</b>     | 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](http://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.

|  |  |
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| <b>Buffer Solution</b>                   | Phosphate buffered saline  |
| <b>Preservative Stabilisers</b>          | None present   |
| <b>Carrier Free</b>                      | Yes  |
| <b>Approx. Protein Concentrations</b>    | IgG concentration 1.0mg/ml after reconstitution  |
| <b>Immunogen</b>                         | <a href="#">Recombinant human G-CSF</a>  |
| <b>External Database Links</b>           | <p><b>UniProt:</b><br/> <a href="#">P09919</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">1440</a>    CSF3    <a href="#">Related reagents</a></p>  |
| <b>Synonyms</b>                          | C17orf33, GCSF   |
| <b>RRID</b>                              | AB_2083737   |
| <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 purified human G-CSF antibody may be used in an indirect ELISA or as the capture reagent in a sandwich ELISA with our <a href="#">biotinylated human G-CSF antibody</a> (AHP1031B) as the detection reagent and <a href="#">recombinant human G-CSF</a> (PHP082B) as the standard.  |
| <b>Histology Positive Control Tissue</b> | Human angiosarcoma   |
| <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>  |

**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:  
<https://www.bio-rad-antibodies.com/SDS/AHP1031>  
10162

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

### Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)  
[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

|                                  |   |                  |   |               |   |
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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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