Technical Data Sheet

# Purified Rat Anti-Human G-CSF

## Product Information

| | |
|---|---|
| **Material Number:** | **551342** |
| **Size:** | 1.0 mg |
| **Concentration:** | 1.0 mg/ml |
| **Clone:** | BVD13-3A5 |
| **Immunogen:** | E. coli-expressed human G-CSF |
| **Isotype:** | Rat IgG1 |
| **Reactivity:** | QC Testing: Human |
| **Storage Buffer:** | Aqueous buffered solution containing ≤0.09% sodium azide. |

## Description

The BVD13-3A5 antibody reacts with human granulocyte-colony stimulating factor (G-CSF). The immunogen used to generate the hybridoma was *E. coli*-expressed human G-CSF. This is a neutralizing antibody.

## Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at 4° C.

## Application Notes

**Application**

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|---|---|
| ELISA Capture | Routinely Tested |
| Western blot | Reported |

**Recommended Assay Procedure:**

**ELISA Capture**: The purified BVD13-3A5 antibody (Cat. No. 551342) is useful as a capture antibody for a sandwich ELISA for measuring human G-CSF protein levels. Purified BVD13-3A5 antibody can be paired with the biotinylated BVD11-37G10 antibody (Cat. No. 554670) as the detecting antibody, with recombinant human G-CSF as the standard. Purified BVD13-3A5 antibody should be titrated 1-4 µg/ml to determine optimal concentration for ELISA capture. To obtain linear standard curves, doubling dilutions of human BVD13-3A5 ranging from ~2,000 to 15 pg/ml are recommended for inclusion in each ELISA plate. For specific methodology, please visit our web site, and go to the protocols section or refer to the chapter on ELISA in the Immune Function Handbook both of which can be found at www.bdbiosciences.com.

**WB**: The BVD13-3A5 antibody (Cat. No. 551342) has been found useful for Western blotting. A concentration of 1-5 µg/ml has been found to enable visualization of ≤ 100 ng/lane of recombinant human G-CSF, under reducing conditions.

## Suggested Companion Products

| Catalog Number | Name | Size | Clone |
|---|---|---|---|
| 554670 | Biotin Rat Anti-Human G-CSF | 0.5 mg | BVD11-37G10 |

## Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

## References

Abrams J. Immunoenzymetric assay of mouse and human cytokines using NIP-labeled anti-cytokine antibodies. In: Coligan J, Kruisbeek A, Margulies D, Shevach E, Strober W, ed. *Current Protocols in Immunology.* New York: John Wiley and Sons; 1995:6.20-6.21.(Clone-specific: ELISA)
Abrams JS, Roncarolo MG, Yssel H, Andersson U, Gleich GJ, Silver JE. Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples. *Immunol Rev.* 1992; 127:5-24.(Clone-specific: ELISA)

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