

Technical Data Sheet

Biotin Rat Anti-Human G-CSF

Product Information

Material Number:	554670
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	BVD11-37G10
Immunogen:	Recombinant Human G-CSF
Isotype:	Rat IgG2a
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The BVD11-37G10 antibody reacts with human granulocyte-colony stimulating factor (G-CSF). The immunogen used to generate the BVD11-37G10 hybridoma was recombinant human G-CSF. The BVD11-37G10 antibody is a neutralizing antibody.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed.

Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

ELISA Detection	Routinely Tested
Western blot	Reported

Recommended Assay Procedure:

ELISA Detection. The biotinylated BVD11-37G10 antibody (Cat. No. 554670) is useful as a detection antibody in a sandwich ELISA for measuring human G-CSF protein levels. Biotinylated BVD11-37G10 antibody can be paired with the purified BVD13-3A5 antibody (Cat. No. 551342) as the capture antibody, with recombinant human G-CSF as the standard. Biotinylated BVD11-37G10 antibody should be titrated (0.5 - 2.0 µg/ml) to determine optimal concentration for ELISA detection. To obtain linear standard curves, doubling dilutions of human G-CSF ranging from ~2,000 to 15 pg/ml are recommended for inclusion in each ELISA plate. For specific methodology, please visit our web site, www.bdbiosciences.com, and go to the protocols section or the chapter on ELISA in the Immune Function Handbook. *Note:* This ELISA pair is recommended primarily for measuring cytokine from experimental cell culture systems. These ELISA reagents are not optimized for assay of serum or plasma samples. This ELISA pair shows no cross-reactivity with any of the cytokines tested (e.g., mouse IL-1β, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-9, IL-10, IL-12 p70, IL-15, GM-CSF, IFN-γ, MCP-1, TCA-3, TNF; human IL-1α, IL-1β, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-11, IL-12 p70, IL-12 p40, IL-13, IL-15, GM-CSF, IFN-γ, lymphotactin, MCP-1, MCP-2, MIP-1α, MIP-1β, NT-3, PDGF-AA, sCD23, SCF, TNF, LT-α, VEGF; rat IL-2, IL-4, IL-6, IL-10, GM-CSF, IFN-γ, TNF).

WB. The BVD11-37G10 antibody has been reported to be useful for Western blotting. Please note that this application is not routinely tested at BD Biosciences Pharmingen.

Suggested Companion Products

Catalog Number	Name	Size	Clone
551342	Purified Rat Anti-Human G-CSF	1.0 mg	BVD13-3A5

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.

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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)