

Technical Data Sheet

Biotin Anti-Human and Viral IL-10

Product Information

Material Number:	554499
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	JES3-12G8
Immunogen:	Human IL-10
Isotype:	Rat IgG2a
Reactivity:	QC Testing: Human, Viral
Storage Buffer:	Aqueous buffered solution containing protein stabilizer and $\leq 0.09\%$ sodium azide.

Description

The JES3-12G8 antibody reacts with human interleukin-10 (IL-10) and viral IL-10. The immunogen used to generate the JES3-12G8 hybridoma was human IL-10. This is a neutralizing antibody.

This antibody is routinely tested by ELISA detection. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.

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 Capture (Human/Viral IL-10): Biotinylated- JES3-12G8 (Cat. No. 554599) is useful as an ELISA capture antibody when used in combination with purified JES3-9D7 (Cat No. 554497) and with recombinant human IL-10 protein standard (Cat. No. 554611).

Note 1: This ELISA pair shows no cross-reactivity with any of the cytokines tested (e.g., mouse IL-1 β , 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-1 α , IL-1 β , IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-11, IL-12 p70, IL-12 p40, IL-13, IL-15, G-CSF, GM-CSF, IFN- γ , lymphotactin, MCP-1, MCP-2, MIP-1 α , MIP-1 β , NT-3, PDGF-AA, sCD23, SCF, TNF, LT- α , VEGF; rat IL-2, IL4, IL-6, IL-10, GM-CSF, IFN- γ , TNF).

Note 2: This ELISA pair is recommended primarily for measuring cytokine from experimental cell culture systems. These ELISA reagents are not recommended for assaying serum samples. For testing human IL-10 in complex biological fluids like serum or plasma, our human IL-10 OptEIA™ ELISA Set (Cat. No. 555157) and OptEIA™ ELISA Kit (Cat. No. 550613) are recommended.

WB: The JES3-12G8 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
554497	Purified Rat Anti-Human and Viral IL-10	0.5 mg	JES3-9D7
554611	Recombinant Human IL-10	5 μ g	(none)
555157	Human IL-10 ELISA Set	20 plates	(none)
550613	Human IL-10 ELISA Kit II	2 plates	(none)

Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- 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.

BD Biosciences

bdbiosciences.com

United States 877.232.8995 Canada 888.259.0187 Europe 32.53.720.550 Japan 0120.8555.90 Asia Pacific 65.6861.0633 Latin America/Caribbean 55.11.5185.9995

For country-specific contact information, visit bdbiosciences.com/how_to_order/

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company. ©2008 BD



References

- 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)
- Burdin N, Peronne C, Banchereau J, Rousset F. Epstein-Barr virus transformation induces B lymphocytes to produce human interleukin 10. *J Exp Med.* 1993; 177(2):295-304. (Clone-specific: ELISA)
- Gottlieb WH, Abrams JS, Watson JM, Velu TJ, Berek JS, Martinez-Maza O. Presence of interleukin 10 (IL-10) in the ascites of patients with ovarian and other intra-abdominal cancers. *Cytokine.* 1992; 4(5):385-390. (Clone-specific: ELISA)
- Yssel H, De Waal Malefyt R, Roncarolo MG, et al. IL-10 is produced by subsets of human CD4+ T cell clones and peripheral blood T cells. *J Immunol.* 1992; 149(7):2378-2384. (Clone-specific: ELISA)