

## Technical Data Sheet

## Purified Rat Anti-Human and Viral IL-10

## Product Information

<b>Material Number:</b>	<b>554497</b>
<b>Alternate Name:</b>	CSIF; Cytokine synthesis inhibitory factor; TGIF
<b>Size:</b>	0.5 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Clone:</b>	JES3-9D7
<b>Immunogen:</b>	Recombinant Human IL-10
<b>Isotype:</b>	Rat IgG1
<b>Reactivity:</b>	QC Testing: Human Tested in Development: Viral
<b>Storage Buffer:</b>	Aqueous buffered solution containing ≤0.09% sodium azide.

## Description

The JES3-9D7 monoclonal antibody specifically reacts with human IL-10 (Interleukin-10) and viral IL-10. The immunogen used to generate the JES3-9D7 hybridoma was recombinant human IL-10 expressed by COS cells. IL-10 is also known as CSIF (Cytokine synthesis inhibitory factor) and (TGIF) T-cell growth inhibitory factor. IL-10 is expressed by various cell types including activated monocytes, macrophages, dendritic cells, mast cells, granulocytes, and lymphocytes. IL-10 is a pleiotropic cytokine that can downregulate proinflammatory immune responses, such as Th1-like responses, while promoting other responses including B cell proliferation and antibody production.

## Preparation and Storage

Store undiluted at 4°C.

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

## Application Notes

## Application

ELISA Capture	Routinely Tested
Intracellular block/flow cytometry	Tested During Development
Western blot	Reported

## Recommended Assay Procedure:

**Blocking Control for Intracellular Staining:** The purified JES3-9D7 antibody can be used as a blocking control to demonstrate specificity of IL-10 staining by PE-conjugated JES3-9D7 antibody (Cat. No. 554498). To perform this control, the fixed/permeabilized cells (~1 million) can be incubated with 1-10 µg of unlabeled JES3-9D7 antibody (Cat. No. 554496) for 20 minutes at 4°C, prior to staining with PE-JES3-9D7 antibody (e.g., 0.1 - 0.5 µg mAb/1 million cells). The intracellular cytokine staining technique and use of blocking controls are described in detail by C. Prussin and D. Metcalfe.

**Western Blot:** The JES3-9D7 antibody has been reported to be useful for Western blotting. Please note that this application is not routinely tested at BD Biosciences.

## Suggested Companion Products

Catalog Number	Name	Size	Clone
554498	PE Rat Anti-Human and Viral IL-10	0.1 mg	JES3-9D7
554715	BD Cytofix/Cytoperm Plus Kit (with BD GolgiStop)	250 Tests	(none)
555062	HiCK-2 Human Cytokine Positive Control Cells	1 mL	(none)
554499	Biotin Anti-Human and Viral IL-10	0.5 mg	JES3-12G8
554611	Recombinant Human IL-10	5 µg	(none)

## Product Notices

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

## References

Abrams J. Immunoenzymetric assay of mouse and human cytokines using NIP-labeled anti-cytokine antibodies. *Curr Protoc Immunol*. 2001; 1:6.20-6.21. (Biology: ELISA)

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554497 Rev. 3



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. (Biology: 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. (Biology: 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. (Biology: 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. (Biology: ELISA)

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