

## Technical Data Sheet

## Purified NA/LE Rat Anti-Human and Viral IL-10

## Product Information

<b>Material Number:</b>	554495
<b>Size:</b>	0.5 mg
<b>Concentration:</b>	1.0 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>	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2µm sterile filtered. Endotoxin level is ≤0.01 EU/µg (≤0.001 ng/µg) of protein as determined by the LAL assay.

## 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.

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

## Application Notes

## Application

ELISA Capture	Routinely Tested
Neutralization	Tested During Development
Intracellular staining (flow cytometry)	Tested During Development

## Neutralization Activity:

This antibody has been reported to be useful for the neutralization of recombinant human IL-10. Neutralization activity may be measured with a proliferation assay using 3 ng/mL recombinant human IL-10 (Cat.No. 554611), co-stimulated with 0.1 ng/mL recombinant mouse IL-4 (Cat.No. 550067), to stimulate MC/9 or D36 cells as indicator cells.

50% Neutralization (ND50) at 0.2 – 4.0 ng/mL

≥ 95% Neutralization at 3 - 30 ng/mL

## Suggested Companion Products

Catalog Number	Name	Size	Clone
554682	Purified NA/LE Rat IgG1 κ Isotype Control	0.5 mg	R3-34
554497	Purified Rat Anti-Human and Viral IL-10	0.5 mg	JES3-9D7
554611	Recombinant Human IL-10	5 µg	(none)
550067	Recombinant Mouse IL-4	10 µg	(none)
554499	Biotin Anti-Human and Viral IL-10	0.5 mg	JES3-12G8

## Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 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)  
 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)  
 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)  
 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)

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