Technical Data Sheet

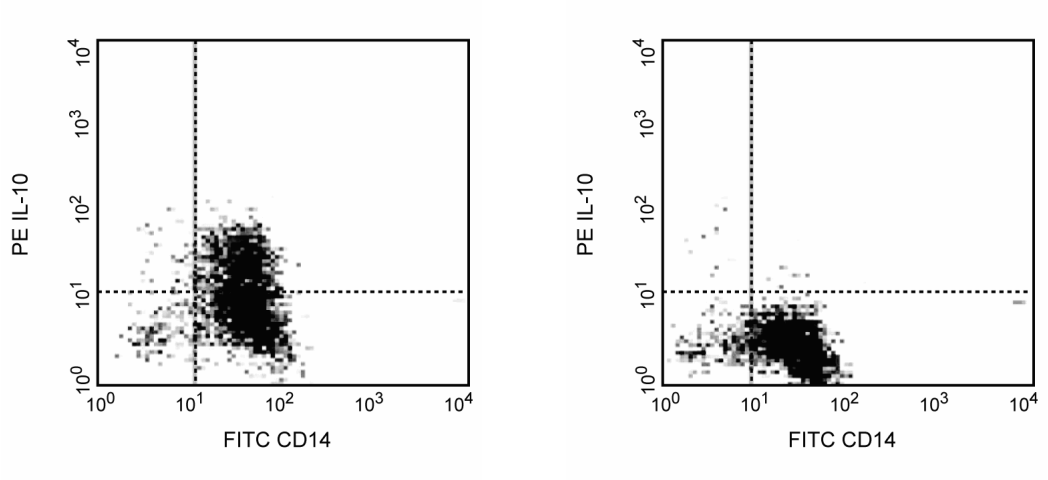
PE Rat Anti-Human and Viral IL-10

Product Information

Material Number:	**554498**
Size:	0.1 mg
Concentration:	0.2 mg/ml
Clone:	JES3-9D7
Immunogen:	Recombinant Human IL-10
Isotype:	Rat IgG1
Reactivity:	QC Testing: Human Tested in Development: Viral
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The JES3-9D7 antibody reacts with human IL-10 and viral IL-10. The immunogen used to generate the JES3-9D7 hybridoma was recombinant human IL-10 expressed in COS cells.



Expression of IL-10 by stimulated CD14+ human monocytes. *Human PBMC were stimulated for 24 hr with LPS (1.0 µg/ml) in the presence of BD GolgiStop™ (Cat No. 554724). The PBMC were stained with FITC-mouse anti-human CD14 antibody (FITC-M5E2, Cat. No. 555397) and 0.25 µg of PE-rat anti-human IL-10 antibody (PE-JES3-9D7, Cat. No. 554498) by using BD Biosciences Pharmingen's staining protocol (see left panel). The data reflect gating on monocytes, based on forward and side scatter. The binding of PE-JES3-9D7 was blocked by the preincubation of the conjugate with an excess of rhIL-10 (1 mg; Cat. No. 554611) (see right panel). The quadrant markers for the bivariate dot plots were set based on the unstained cell control.*

Preparation and Storage

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

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

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

Application Notes

Application

Intracellular staining (flow cytometry)	Routinely Tested

Recommended Assay Procedure:

For optimal immunofluorescent staining with flow cytometric analysis, this anti-cytokine antibody should be pretitrated (≤ 0.50 µg mAb/million cells). An appropriate isotype control for this antibody for intracellular staining is PE-conjugated rat IgG1, clone R3-34 (Cat. No. 554685). For

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specific methodology, please visit the protocols section or chapter on intracellular staining in the Immune Function Handbook, both of which are posted on our web site, www.bdbiosciences.com.

Suggested Companion Products

Catalog Number	Name	Size	Clone
554685	PE Rat IgG1, κ Isotype Control	0.1 mg	R3-34
554715	BD Cytofix/Cytoperm Plus Kit (with BD GolgiStop)	250 tests	(none)
555062	HiCK-2 Human Cytokine Positive Control Cells	1.0 ml	(none)

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. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
4. 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)

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)

Gotlieb 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)

Prussin C, Metcalfe DD. Detection of intracytoplasmic cytokine using flow cytometry and directly conjugated anti-cytokine antibodies. *J Immunol Methods.* 1995; 188(1):117-128. (Methodology: Flow cytometry)

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)