

Technical Data Sheet

Purified Rat Anti-Human IL-10

Product Information

Material Number:	554705
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	JES3-19F1
Immunogen:	Recombinant Human IL-10
Isotype:	Rat IgG2a
Reactivity:	QC Testing: Human Tested in Development: Viral
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The JES3-19F1 antibody reacts with human (IL-10). The immunogen used to generate the JES3-19F1 hybridoma was recombinant human IL-10 expressed in COS cells. This is a neutralizing antibody. This antibody also reacts with viral IL-10.

This antibody is routinely tested by ELISA Capture. 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. Store undiluted at 4°C.

Application Notes

Application

ELISA Capture	Routinely Tested
Neutralization	Tested During Development
Immunofluorescence	Tested During Development
Intracellular block/flow cytometry	Tested During Development

Recommended Assay Procedure:

1. ELISA Capture: The purified JES3-19F1 antibody (Cat. No. 554705) is useful as a capture antibody for a sandwich ELISA for specifically measuring human IL-10 protein levels. Purified JES3-19F1 antibody (Cat. No. 554705) can be paired with the biotinylated JES3-12G8 antibody (Cat. No. 554499) as the detection antibody and with recombinant human IL-10 protein (Cat. No. 554611) as the standard. The purified JES3-19F1 capture antibody should be titrated 1-4 µg/ml to determine optimal concentration for ELISA capture. To obtain linear standard curves, doubling dilutions of human IL-10 ranging from ~2,000 to 15 pg/ml are recommended for inclusion in each ELISA plate. For specific methodology, please visit the protocols section or chapter on ELISA in the Immune Function Handbook, both of which are posted on our web site, www.bdbiosciences.com.

Note 1: This ELISA pair shows no cross-reactivity with any of the cytokines tested (e.g., mouse IL-1B, 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-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-1α, MIP-1B, NT-3, PDGF-AA, sCD23 , SCF, TNF, LT-α, VEGF; rat IL-2, IL-4, 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.*

2. IF/Flow: The JES3-19F1 antibody is useful for immunofluorescent staining and flow cytometric analysis to identify and enumerate IL-10 producing cells within mixed cell populations. The directly-conjugated JES3-19F1 antibodies are especially suitable for these studies. For 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.

3. Neutralization: The JES3-19F1 antibody is useful for neutralization of human IL-10 bioactivity. The purified JES3-19F1 antibody is supplied in our NA/LE™ format (Cat. No. 554703), which is sodium azide-free, sterile-filtered (0.2 µm pore), sterility-tested, and with assured low endotoxin for this purpose. Endotoxin level as determined by LAL assay is less than 0.01 ng/µg protein. A suitable NA/LE rat IgG2a isotype

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control to match the NA/LE JES3-19F1 antibody is the R35-95 antibody, (Cat. No. 554687).

Suggested Companion Products

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
554499	Biotin Anti-Human and Viral IL-10	0.5 mg	JES3-12G8
554611	Recombinant Human IL-10	5 µg	(none)
554703	Purified NA/LE Rat Anti-Human IL-10	0.5 mg	JES3-19F1
555157	Human IL-10 ELISA Set	20 plates	(none)
550613	Human IL-10 ELISA Kit II	2 plates	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharming/en/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.

References

Andersson EC, Christensen JP, Marker O, Thomsen AR. Changes in cell adhesion molecule expression on T cells associated with systemic virus infection. *Immunology*. 1994; 152(3):1237-1245. (Clone-specific)

D'Andrea A, Aste-Amezaga M, Valliante NM, Ma X, Kubin M, Trinchieri G. Interleukin 10 (IL-10) inhibits human lymphocyte interferon gamma-production by suppressing natural killer cell stimulatory factor/IL-12 synthesis in accessory cells. *J Exp Med*. 1993; 178(3):1041-1048. (Clone-specific: Neutralization)

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)