

Technical Data Sheet

Purified NA/LE Rat Anti-Human IL-10

Product Information

Material Number:	554703
Alternate Name:	Interleukin-10; CSIF; Cytokine synthesis inhibitory factor; TGIF
Size:	0.5 mg
Concentration:	1.0 mg/ml
Clone:	JES3-19F1
Immunogen:	Recombinant Human IL-10
Isotype:	Rat IgG2a
Reactivity:	QC Testing: Human Tested in Development: Viral
Storage Buffer:	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 JES3-19F1 antibody reacts with human interleukin-10 (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.

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	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 5 ng/mL recombinant human IL-10 (Cat. No. 554611), co-stimulated with 50 pg/mL recombinant mouse IL-4 (Cat. No. 550067), to stimulate MC/9 or D36 indicator cells (i.e. preincubation of the antibody with recombinant human IL-10 for 60 min).

50% Neutralization (ND50) at 1 - 20 ng/mL

≥ 95% Neutralization at 25 - 100 ng/mL

Recommended Assay Procedure:

ELISA: The Purified Rat Anti-Human IL-10 mAb (Clone JES3-19F1, Cat. No. 554705) has been reported to be useful as a capture antibody in sandwich ELISA for human IL-10. Purified JES3-19F1 antibody can be paired with the Biotin Anti-Human IL-10 mAb (Clone JES3-12G8, Cat. No. 554499) and with recombinant human IL-10 (Cat. No. 554611) as the standard. Purified JES3-19F1 antibody should be titrated to determine the optimal concentration for ELISA capture. To obtain linear standard curves, investigators may want to consider using doubling dilutions of human IL-10 standard from 15 pg/mL to 2000 pg/mL to be included in each ELISA plate. For measuring human IL-10 in complex biological fluids, such as serum or plasma, investigators are highly encouraged to use the BD OptEIA™ Human IL-10 ELISA Set (Cat. No. 555157) or BD OptEIA™ Human IL-10 ELISA Kit II (Cat. No. 550613) is recommended.

Suggested Companion Products

Catalog Number	Name	Size	Clone
554687	Purified NA/LE Rat IgG2a κ Isotype Control	0.5 mg	R35-95
554611	Recombinant Human IL-10	5 µg	(none)
555157	Human IL-10 ELISA Set	20 plates	(none)
550613	Human IL-10 ELISA Kit II	2 plates	(none)
550067	Recombinant Mouse IL-4	10 µg	(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.

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