



Rat Anti-Human/Viral IL-10

Cat. No.	Form	Quantity
10100-01	Purified (UNLB) Antibody	0.5 mg
10100-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg

DESCRIPTION

CLONE	JES3-9D7
IMMUNOGEN	COS-expressed human IL-10
ISOTYPE	Rat IgG ₁ κ
SPECIFICITY	Human and Viral Interleukin-10 (IL-10) ¹⁻⁵ (This is a neutralizing antibody)

RESEARCH APPLICATIONS

ELISA Capture: Purified JES3-9D7 monoclonal antibody is the preferred capture antibody in a sandwich ELISA for quantifying human and/or viral IL-10 proteins.¹⁻⁵ Purified JES3-9D7 antibody should be paired with biotinylated JES3-12G8 antibody (Cat. No. 10110-08) as the detection antibody, with purified recombinant human IL-10 as the standard.

Immunofluorescence/Flow Cytometry: The JES3-9D7 antibody is useful for intracytoplasmic staining and flow cytometric analysis to identify and enumerate IL-10-positive cells within mixed cell populations. Recombinant human IL-10 or unlabeled Rat IgG₁ should be used as a specificity control.

Western Blotting: The purified JES3-9D7 antibody is also useful for Western blotting applications. A concentration of 1-5 µg/mL (in conjunction with AP-labeled Goat Anti-Rat-Ig, Cat. No. 3010-04) has been found to enable detection of ≤ 100 ng/lane of recombinant human IL-10 under reducing conditions.

Neutralization: The LE/AF form of JES3-9D7 can be used for neutralizing human/viral IL-10 bioactivity. A suitable LE/AF Rat IgG₁ (Cat. No. 0116-14) should be used as an isotype control.

Since applications vary, each investigator should determine the optimal concentration appropriate for individual applications.

CHARACTERIZATION

To ensure acceptable performance, each batch of product is tested in a sandwich ELISA to conform to characteristics of a standard reference reagent.

HANDLING AND STORAGE

- The purified (UNLB) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. **Aliquot and store at or below -20°C.**
- Protect conjugated forms from light. Aliquot and freeze the low endotoxin, azide-free product at -20°C immediately upon receipt. Each reagent is stable for the period shown on the bottle label if stored as directed.

REFERENCES

1. Abrams, J.S., M.-G. Roncarolo, H. Yssel, U. Andersson, G.J. Gleich, and J.E., Silver. 1992. *Immunol. Rev.* 127:5.
2. Gottlieb, W.H., J.S. Abrams, J.M. Watson, T. Velu, J.S. Berek, and O. Martinez-Maza. 1992. *Cytokine* 4:385.
3. Yssel, H., R. de Waal Malefyt, M-G. Roncarolo, J. Abrams, R. Lahesmaa, H. Spits, and J. de Vries. 1992. *J. Immunol.* 149:2378.
4. Abrams, J. 1995. Immunoenzymetric assay of mouse and human cytokines using NIP-labeled anti-cytokine antibodies. In *Current Protocols in Immunology* (J. Coligamn, A. Kruisbeek, D. Margulies, E. Shevach, W. Strober, eds.). John Wiley and Sons, New York. Unit 6.20.
5. Burdin, N., C. Peronne, J. Banchereau, and F. Rousset. 1993. *J. Exp. Med.* 177:295.

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