



Rat Anti-Human/Viral IL-10

Cat. No.	Form	Quantity
10110-01	Purified (UNLB) Antibody	0.5 mg
10110-08	Biotin (BIOT) Conjugate	0.5 mg

DESCRIPTION

CLONE	JES3-12G8
IMMUNOGEN	COS-expressed human IL-10 ¹
ISOTYPE	Rat IgG _{2a} K
SPECIFICITY	Human and Viral Interleukin-10 (IL-10) ¹⁻⁴ (This is a neutralizing antibody.)

RESEARCH APPLICATIONS

ELISA Detection: Biotinylated JES3-12G8 monoclonal antibody is the preferred detection antibody in a sandwich ELISA for quantifying human and/or viral IL-10 proteins.¹⁻⁴ Biotinylated JES3-12G8 antibody should be paired with purified JES3-9D7 antibody (Cat. No. 10100-01) as the capture antibody, with purified recombinant human IL-10 as the standard.

Western Blotting: The purified JES3-12G8 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.

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 biotin (BIOT) conjugate is supplied as 0.5 mg labeled antibody in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- Reagents are stable for the period shown on the label if stored as directed.

WARNING

Reagents contain sodium azide. Sodium azide is very toxic if ingested or inhaled. Avoid contact with skin, eyes, or clothing. Wear eye or face protection when handling. If skin or eye contact occurs, wash with copious amounts of water. If ingested or inhaled, contact a physician immediately. Sodium azide yields toxic hydrazoic acid under acidic conditions. Dilute azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or copper plumbing.

REFERENCES

1. Abrams, J.S., M.-G. Roncarolo, H. Yssel, U. Andersson, G.J. Gleich, and J.E., Silver. 1992. Strategies of anti-cytokine monoclonal antibody development: Immunoassay of IL-10 and IL-5 in clinical samples. *Immunol. Rev.* 127:5-24.
2. Gottlieb, W.H., J.S. Abrams, J.M. Watson, T. Velu, J.S. Berek, and O. Martinez-Maza. 1992. Presence of IL-10 in the ascites of patients with ovarian and other intra-abdominal cancers. *Cytokine* 4:385-390.
3. Yssel, H., R. de Waal Malefyt, M.-G. Roncarolo, J. Abrams, R. Lahesmaa, H. Spits, and J. de Vries. 1992. Interleukin 10 is produced by subsets of human CD4⁺ T cell clones and peripheral blood T cells. *J. Immunol.* 149:2378-2384.
4. Burdin, N., C. Peronne, J. Banchereau, and F. Rousset. 1993. Epstein-Barr virus transformation induces B lymphocytes to produce human interleukin 10. *J. Exp. Med.* 177:295-304.

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