Technical Data Sheet

Biotin Rat Anti-Mouse IL-10

Product Information

Material Number:	**554465**
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	JES5-16E3
Immunogen:	Recombinant mouse IL-10
Isotype:	Rat IgG2b
Reactivity:	QC testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The JES5-16E3 antibody reacts with mouse interleukin-10 (IL-10). The immunogen used to generate the JES5-16E3 hybridoma was recombinant mouse IL-10. This is a neutralizing antibody.

This antibody is routinely tested by ELISA analysis. 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.
The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed.
Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

ELISA Detection	Routinely Tested

Recommended Assay Procedure:

ELISA Detection: The biotinylated JES5-16E3 antibody (Cat. No. 554465) is useful as a detection antibody for a sandwich ELISA for measuring mouse IL-10 protein levels. Biotinylated JES5-16E3 antibody can be paired with the purified JES52A5 antibody (Cat. No. 551215) as the capture antibody, with recombinant mouse IL-10 (Cat. No. 550070) as the standard. The biotinylated JES5-16E3 antibody should be titrated 0.5 -2.0 µg/ml to determine optimal concentration for ELISA detection. To obtain linear standard curves, doubling dilutions of mouse IL-10 protein ranging from ~2,000 to 15 pg/ml are recommended for inclusion in each ELISA plate. For maximal sensitivity, an overnight incubation (4°C) of samples/standards with the coated capture antibody is recommended. For specific methodology, please visit our web site, and go to the protocols section or see *Chapter 7: ELISA for specifically measuring the levels of cytokines, chemokines, and inflammatory mediators and their receptors.* in *Techniques for Immune Function Analysis Application Handbook,* both of which are located at www.bdbiosciences.com.

Note: This ELISA pair is recommended primarily for measuring cytokine from experimental cell culture systems. These ELISA reagents are not recommended for assay of serum or plasma samples. For measuring IL-10 in serum or plasma, the BD OptEIA™ Mouse IL-10 Set (Cat. No. 555252) is specially formulated and recommended.

Immunofluorescent Staining for Flow cytometric analysis: The JES5-16E3 antibody is useful for immunofluorescent staining and flow cytometric analysis to identify and enumerate IL-10 producing cells within mixed cell populations. FITC, PE and APC-conjugated JES5-16E3 (Cat. No. 554466, 554467, 554468) are especially suited for these experiments.

Suggested Companion Products

Catalog Number	Name	Size	Clone
555252	Mouse IL-10 ELISA Set	20 tests	(none)
550070	Recombinant Mouse IL-10	10 µg	(none)
551215	Purified Rat Anti-Mouse IL-10	1.0 mg	JES5-2A5

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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. 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 U, Andersson J. Immunolabeling of cytokine-producing cells in tissues and in suspension. In: Fradelizie D, Emelie D, ed. *Cytokine Producing Cells.* Paris: Inserm; 1994:32-49.(Clone-specific: Immunocytochemistry (cytospins), Neutralization)

Litton MJ, Sander B, Murphy E, O'Garra A, Abrams JS. Early expression of cytokines in lymph nodes after treatment in vivo with Staphylococcus enterotoxin B. *J Immunol Methods.* 1994; 175(1):47-58.(Clone-specific: Neutralization)

Sander B, Hoiden I, Andersson U, Moller E, Abrams JS. Similar frequencies and kinetics of cytokine producing cells in murine peripheral blood and spleen. Cytokine detection by immunoassay and intracellular immunostaining. *J Immunol Methods.* 1993; 166(2):201-214.(Clone-specific: Immunocytochemistry (cytospins), Neutralization)