

Technical Data Sheet

Purified Rat Anti-Mouse IL-10

Product Information

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| Material Number: | 551215 |
| Size: | 1.0 mg |
| Concentration: | 1.0 mg/ml |
| Clone: | JES5-2A5 |
| Immunogen: | E. coli-expressed mouse IL-10 |
| Isotype: | Rat IgG1, κ |
| Reactivity: | QC Testing: Mouse |
| Storage Buffer: | Aqueous buffered solution containing $\leq 0.09\%$ sodium azide. |

Description

The JES5-2A5 antibody reacts with mouse IL-10. The immunogen used to generate the JES5-2A5 hybridoma was E. coli-expressed mouse IL-10. This is a neutralizing antibody.

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

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| ELISA Capture | Routinely Tested |
| Western blot | Reported |

Recommended Assay Procedure:

ELISA Capture: The purified JES5-2A5 antibody (Cat. No. 551215) is useful as a capture antibody for a sandwich ELISA for measuring mouse IL-10 protein levels. Purified JES5-2A5 antibody can be paired with the biotinylated SXC-1 (Cat. No. 554423) antibody or the biotinylated JES5-16E3 (Cat. No. 554465) antibody as the detecting antibody, with recombinant mouse IL-10 protein (Cat. No. 550070) as the standard. Purified JES5-2A5 antibody should be titrated (2 - 6 $\mu\text{g/ml}$) to determine the optimal concentration for ELISA capture. An appropriate range of concentrations of the mouse IL-10 recombinant protein for obtaining a linear standard curve is 2 ng/ml to 15 $\mu\text{g/ml}$ mouse IL-10. For maximal sensitivity, an overnight incubation (4°C) of samples/standards with the coated capture antibody is suggested. For specific methodology, please visit the protocols section of the website or the chapter on ELISA in the Immune Function Handbook, both of which are posted on our web site, www.bdbiosciences.com. This reagent is recommended primarily for assay of cell culture supernatants. For assay of mouse IL-10 in serum or plasma, our OptEIA™ Mouse IL-10 ELISA Set (Cat. No. 555252) is recommended.

Note: This ELISA pair shows no cross-reactivity with any of the cytokines or chemokines tested (e.g., mouse IL-1 β , IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-9, IL-12 p70, IL-15, GM-CSF, IFN- γ , MCP-1, TCA-3, TNF; human IL-1 α , IL-1 β , IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-11, IL-12 p70, IL-12 p40, IL-13, IL-15, G-CSF, GM-CSF, IFN- γ , lymphotactin, MCP-1, MCP-2, MIP-1 α , MIP-1 β , NT-3, PDGF-AA, sCD23, SCF, TNF, LT- α , VEGF; rat IL-2, IL-4, IL-6, IL-10, GM-CSF, IFN- γ , TNF).

Western blot: The JES5-2A5 antibody (Cat. No. 551215) has been found useful for western blotting. A concentration of 1-5 $\mu\text{g/ml}$ (in conjunction with the AKP-conjugated goat anti-rat Igs) has been found to enable visualization of ≤ 100 ng/lane of recombinant mouse IL-10 (Cat. No. 550070) under reducing conditions. Please note that this application is not routinely tested at BD Biosciences.

Neutralization: The no azide/ low endotoxin format (NA/LE) of JES5-2A5 antibody (Cat. No. 554421) is useful for neutralization of mouse IL-10 bioactivity. A suitable NA/LE rat IgG1 isotype-matched control is the R3-34 antibody (Cat. No. 554682).

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Suggested Companion Products

| Catalog Number | Name | Size | Clone |
|----------------|-----------------------------|----------|-----------|
| 554423 | Biotin Rat Anti-Mouse IL-10 | 0.5 mg | SXC-1 |
| 554465 | Biotin Rat Anti-Mouse IL-10 | 0.5 mg | JES5-16E3 |
| 550070 | Recombinant Mouse IL-10 | 10 µg | (none) |
| 555252 | Mouse IL-10 ELISA Set | 20 tests | (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

Abrams J. Immunoassay of mouse and human cytokines using NIP-labeled anti-cytokine antibodies. In: Coligan J, Kruisbeek A, Margulies D, Shevach E, Strober W, ed. *Current Protocols in Immunology*. New York: John Wiley and Sons; 1995:6.20-6.21.(Clone-specific: ELISA)

Abrams JS, Roncarolo MG, Yssel H, Andersson U, Gleich GJ, Silver JE. Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples. *Immunol Rev*. 1992; 127:5-24.(Clone-specific: ELISA, Neutralization)

Mo XY, Sarawar SR, Doherty PC. Induction of cytokines in mice with parainfluenza pneumonia. *J Virol*. 1995; 69(2):1288-1291.(Clone-specific: ELISA)

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Sarawar SR, Sangster M, Coffman RL, Doherty PC. Administration of anti-IFN-gamma antibody to beta 2-microglobulin-deficient mice delays influenza virus clearance but does not switch the response to a T helper cell 2 phenotype. *J Immunol*. 1994; 153(3):1246-1253.(Clone-specific: ELISA)

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