

Technical Data Sheet

Purified NA/LE Rat Anti-Mouse IL-2

Product Information

Material Number:	554375
Size:	0.5 mg
Concentration:	1.0 mg/ml
Clone:	S4B6
Immunogen:	T cell clone supernatant
Isotype:	Rat IgG2a
Reactivity:	QC Testing: Mouse
Storage Buffer:	No azide/low endotoxin: Aqueous buffered solution containing protein stabilizer, 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 S4B6 antibody reacts with mouse interleukin-2 (IL-2). The immunogen used to generate the S4B6 hybridoma was a T cell clone supernatant. This is a neutralizing antibody.

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

Neutralization	Routinely Tested
Western blot	Reported

Neutralization Activity:

This antibody has been reported to be useful for the neutralization of recombinant mouse IL-2. Neutralization activity may be measured with a proliferation assay using 80 pg/mL recombinant mouse IL-2 (Cat. No. 550069) to stimulate CTLL-2 cells at 1×10^5 cells/mL as indicator cells (i.e. preincubation of the antibody with recombinant mouse IL-2 for 60 minutes).

50% Neutralization (ND50) at 5 - 30 ng/mL

> 95 % Neutralization at 30 - 80 ng/mL

Recommended Assay Procedure:

Western Blot: The S4B6 antibody (purified format) has been reported to be useful for Western blotting. A concentration of 1-5 µg/mL (in conjunction with an AKP-conjugated goat anti-rat Ig secondary antibody) has been reported to enable detection of ≤ 100 ng/lane of recombinant mouse IL-2 (Cat. No. 550069) under reducing conditions.

Suggested Companion Products

Catalog Number	Name	Size	Clone
554687	Purified NA/LE Rat IgG2a κ Isotype Control	0.5 mg	R35-95
550069	Recombinant Mouse IL-2	20 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.

References

Cherwinski HM, Schumacher JH, Brown KD, Mosmann TR. Two types of mouse helper T cell clone. III. Further differences in lymphokine synthesis between Th1 and Th2 clones revealed by RNA hybridization, functionally monospecific bioassays, and monoclonal antibodies. *J Exp Med.* 1987; 166(5):1229-1244.

(Clone-specific: Neutralization)

Gillis S, Ferm MM, Ou W, Smith KA. T cell growth factor: parameters of production and a quantitative microassay for activity. *J Immunol.* 197; 120(6):2027-2032. (Methodology: Bioassay)

Kubo M, Cinader B. Polymorphism of age-related changes in interleukin (IL) production: differential changes of T helper subpopulations, synthesizing IL 2, IL 3 and IL 4. *Eur J Immunol.* 1990; 20(6):1289-1296. (Biology)

Mosmann TR, Cherwinski H, Bond MW, Giedlin MA, Coffman RL. Two types of murine helper T cell clone. I. Definition according to profiles of lymphokine activities and secreted proteins. *J Immunol.* 1986; 136(7):2348-2357. (Clone-specific: Neutralization)

Svetic A, Jian YC, Lu P, Finkelman FD, Gause WC. Brucella abortus induces a novel cytokine gene expression pattern characterized by elevated IL-10 and IFN-gamma in CD4+ T cells. *Int Immunol.* 1993; 5(8):877-883. (Clone-specific: Neutralization)

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