

## Technical Data Sheet

## Purified NA/LE Rat Anti-Mouse IL-4

## Product Information

<b>Material Number:</b>	554432
<b>Alternate Name:</b>	IL4: Interleukin-4; BSF-1; B-cell growth factor 1; BCGF-1
<b>Size:</b>	0.5 mg
<b>Concentration:</b>	1.0 mg/ml
<b>Clone:</b>	11B11
<b>Immunogen:</b>	Partially Purified Mouse IL-4
<b>Isotype:</b>	Rat IgG1
<b>Reactivity:</b>	QC Testing: Mouse
<b>Storage Buffer:</b>	No azide/low endotoxin: Aqueous buffered solution containing 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 11B11 antibody reacts with mouse interleukin-4 (IL-4). The immunogen used to generate the 11B11 hybridoma was partially purified mouse IL-4 from PMA-stimulated EL-4 supernatant. The purified or unconjugated form of this antibody has been reported to be neutralizing.

## 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

ELISA	Routinely Tested
Neutralization	Tested During Development
Flow cytometry	Tested During Development
Western blot	Reported

## Neutralization Activity:

Investigators are advised that the neutralization application is not routinely tested for this material. Purified NA/LE Rat Anti-Mouse IL-4 has been reported to be useful for the neutralization of recombinant mouse IL-4 and may be measured with an MTT proliferation assay using 1 ng/mL recombinant mouse IL-4 to stimulate CTLL-2 indicator cells at  $2 \times 10^4$  cells/mL.

50% Neutralization (ND50) at 1 – 50 ng/mL

> 95 % Neutralization at 50 - 300 ng/mL

## Suggested Companion Products

Catalog Number	Name	Size	Clone
550067	Recombinant Mouse IL-4	10 µg	(none)
554682	Purified NA/LE Rat IgG1 κ Isotype Control	0.5 mg	R3-34
555232	Mouse IL-4 ELISA Set	20 plates	(none)

## Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.

## References

Haak-Frendscho M, Brown JF, Iizawa Y, Wagner RD, Czuprynski CJ. Administration of anti-IL-4 monoclonal antibody 11B11 increases the resistance of mice to *Listeria monocytogenes* infection. *J Immunol.* 1992; 148(12):3978-3985. (Biology: Neutralization)

Lindqvist C, Lundstrom H, Oker-Blom C, Akerman KE. Enhanced IL-4-mediated D10.G4.1 proliferation with suboptimal concentrations of anti-IL-4 receptor monoclonal antibodies. *J Immunol.* 1993; 150(2):394-398. (Biology: Neutralization)

Ohara J, Paul WE. Production of a monoclonal antibody to and molecular characterization of B-cell stimulatory factor-1. *Nature.* 1985; 315(6017):333-336. (Immunogen)

Openshaw P, Murphy EE, Hosken NA, et al. Heterogeneity of intracellular cytokine synthesis at the single-cell level in polarized T helper 1 and T helper 2 populations. *J Exp Med.* 1995; 182(5):1357-1367. (Biology: Flow cytometry)

Sadick MD, Heinzel FP, Holaday BJ, Pu RT, Dawkins RS, Locksley RM. Cure of murine leishmaniasis with anti-interleukin 4 monoclonal antibody. Evidence for a T cell-dependent, interferon gamma-independent mechanism. *J Exp Med.* 1990; 171(1):115-127. (Biology: Neutralization)

Swain SL, Weinberg AD, English M, Huston G. IL-4 directs the development of Th2-like helper effectors. *J Immunol.* 1990; 145(11):3796-3806. (Biology: Neutralization)

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