

Technical Data Sheet

Purified NA/LE Rat Anti-Mouse IL-4

Product Information

Material Number:	554385
Size:	0.5 mg
Concentration:	1.0 mg/ml
Clone:	BVD4-1D11
Immunogen:	Recombinant Mouse IL-4
Isotype:	Rat IgG2b
Reactivity:	QC Testing: Mouse
Storage Buffer:	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 BVD4-1D11 antibody reacts with mouse interleukin-4 (IL-4). The immunogen used to generate the BVD4-1D11 hybridoma was recombinant mouse IL-4.

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

Neutralization Activity:

This antibody has been reported to be useful for the neutralization of recombinant mouse IL-4. Neutralization activity may be measured with a proliferation assay using 1 ng/mL recombinant mouse IL-4 (Cat. No. 550067) to stimulate D36 cells at 1×10^5 cells/mL as indicator cells (i.e. preincubation of the antibody with recombinant mouse IL-4 for 60 minutes).

50% Neutralization (ND50) at 1.5 - 75 ng/mL

≥ 95% Neutralization at 0.2 - 1.1 µg/mL

Recommended Assay Procedure:

ELISA: The purified format of BVD4-1D11 antibody (Cat. No. 554387) can be useful as a capture antibody in a sandwich ELISA for measuring mouse IL-4. Purified BVD4-1D11 antibody can be paired with the biotinylated BVD6-24G2 antibody (Cat. No. 554390) as the detecting antibody, with recombinant mouse IL-4 (Cat. No. 550067) as the standard. For testing mouse IL-4 in complex biological fluids, such as serum or plasma, investigators may wish to consider using the BD OptEIA™ Mouse IL-4 Set (Cat. No. 555232).

Suggested Companion Products

Catalog Number	Name	Size	Clone
554387	Purified Rat Anti-Mouse IL-4	0.5 mg	BVD4-1D11
554390	Biotin Rat Anti-Mouse IL-4	0.5 mg	BVD6-24G2
550067	Recombinant Mouse IL-4	10 µg	(none)
555232	Mouse IL-4 ELISA Set	20 plates	(none)
554389	PE Rat Anti-Mouse IL-4	0.1 mg	BVD4-1D11
554432	Purified NA/LE Rat Anti-Mouse IL-4	0.5 mg	11B11

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

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)
 Finkelman FD, Madden KB, Morris SC, et al. Anti-cytokine antibodies as carrier proteins. Prolongation of in vivo effects of exogenous cytokines by injection of cytokine-anti-cytokine antibody complexes. *J Immunol.* 1993; 151(3):1235-1244. (Clone-specific: ELISA)
 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: ELISA)

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Prussin C, Metcalfe DD. Detection of intracytoplasmic cytokine using flow cytometry and directly conjugated anti-cytokine antibodies. *J Immunol Methods*. 1995; 188(1):117-128. (Methodology)

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: ELISA)

Schlaak JF, Schmitt E, Hüls C, Meyer zum Büschenfelde KH, Fleischer B. A sensitive and specific bioassay for the detection of human interleukin-10. *J Immunol Methods*. 1994; 168(1):49-54. (Methodology: Bioassay)

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