Technical Data Sheet

Purified NA/LE Rat Anti-Mouse IL-3

Product Information

Material Number:	**554379**
Size:	0.5 mg
Concentration:	1.0 mg/ml
Clone:	MP2-8F8
Immunogen:	Recombinant mouse IL-3
Isotype:	Rat IgG1
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 MP2-8F8 antibody reacts with mouse interleukin-3 (IL-3). The immunogen used to generate the MP2-8F8 hybridoma was COS-expressed recombinant mouse IL-3. 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
ELISA	Tested During Development
Flow cytometry	Tested During Development

Neutralization Activity:
This antibody has been reported to be useful for the neutralization of recombinant mouse IL-3. Neutralization activity may be measured with a proliferation assay using 50 pg/mL recombinant mouse IL-3 (Cat. No. 554579) to stimulate NFS-60 cells at 4x10^4 cells/mL as indicator cells (i.e. preincubation of the antibody with recombinant mouse IL-3 for 60 minutes).
50% Neutralization (ND50) at 5 - 45 ng/mL
>90% Neutralization at 0.6 - 1.1 µg/mL

Recommended Assay Procedure:
ELISA: The purified MP2-8F8 antibody (Cat. No. 554381) is useful as a capture antibody for a sandwich ELISA for measuring mouse IL-3 protein levels. Purified MP2-8F8 antibody can be paired with the biotinylated MP2-43D11 antibody (Cat. No. 554384) as the detecting antibody, with recombinant mouse IL-3 (Cat. No. 554579) as the standard. For testing mouse IL-3 in complex biological fluids, such as serum or plasma, investigators may wish to consider using the BD OptEIA™ Mouse IL-3 ELISA Set (Cat. No. 555228).

Suggested Companion Products

Catalog Number	Name	Size	Clone
554579	Recombinant Mouse IL-3	10 µg	(none)
553921	Purified NA/LE Rat IgG1, κ Isotype Control	0.5 mg	R3-34
555228	Mouse IL-3 ELISA Set	20 plates	(none)

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.

References

Abrams JS, Pearce MK.. Development of rat anti-mouse interleukin 3 monoclonal antibodies which neutralize bioactivity in vitro. *J Immunol.* 1988; 140(1):131-137. (Biology)
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. (Biology)
Cockayne DA, Abrams JS, Nienhuis AW. Antisense RNA inhibition of hematopoietic growth factor production. *Growth Factors.* 1991; 5(3):171-181. (Biology)
Weinstein Y, Ihle JN, Lavu S, Reddy EP. Truncation of the c-myb gene by a retroviral integration in an interleukin 3-dependent myeloid leukemia cell line. *Proc Natl Acad Sci U S A.* 1986; 83(14):5010-5014. (Biology)

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