

Technical Data Sheet

Biotin Rat Anti-Mouse IL-3

Product Information

Material Number:	554384
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	MP2-43D11
Immunogen:	Recombinant mouse IL-3
Isotype:	Rat IgG2a
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The MP2-43D11 antibody reacts with mouse interleukin-3 (IL-3). The immunogen used to generate this hybridoma was recombinant mouse IL-3. This is a non-neutralizing antibody.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed.

Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

ELISA Detection	Routinely Tested
Western blot	Reported

Recommended Assay Procedure:

ELISA Detection: The biotinylated MP2-43D11 antibody (Cat. No. 554384) is useful as a detection antibody for a sandwich ELISA for measuring mouse IL-3 protein levels. Biotinylated MP2-43D11 antibody can be paired with the purified MP2-8F8 antibody (Cat. No. 554381) as the capture antibody, with recombinant mouse IL-3 protein (Cat. No. 554579) as the standard. Biotinylated MP2-43D11 antibody should be titrated 0.5 - 2.0 µg/ml to determine optimal concentration for ELISA detection. To obtain linear standard curves, doubling dilutions of mouse IL-3 ranging from ~2,000 to 15 pg/ml are recommended for inclusion in each ELISA plate. For specific methodology, please visit the protocols section or chapter on ELISA in the Immune Function Handbook, both of which are posted on our web site, www.bdbiosciences.com.

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

Note: This ELISA pair is recommended primarily for measuring cytokine from experimental cell culture systems. For testing mouse IL-3 in serum or plasma, the BD OptEIA™ ELISA Set (Cat. No. 555228) is recommended.

Western Blot: The MP2-43D11 antibody has been reported to be useful for Western blotting. Please note that this application is not routinely tested at BD Biosciences Pharmingen.

Suggested Companion Products

Catalog Number	Name	Size	Clone
554381	Purified Rat Anti-Mouse IL-3	0.5 mg	MP2-8F8
554579	Recombinant Mouse IL-3	10 µg	(none)
555228	Mouse IL-3 ELISA Set	20 plates	(none)

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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. Immunoenzymetric assay 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, 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.(Clone-specific: ELISA)
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- 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)