

Technical Data Sheet

Biotin Rat Anti-Mouse IL-6

Product Information

Material Number:	554402
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	MP5-32C11
Immunogen:	Recombinant mouse IL-6
Isotype:	Rat IgG2a
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The MP5-32C11 antibody reacts with mouse interleukin-6 (IL-6). The immunogen used to generate the MP5-32C11 hybridoma was recombinant mouse IL-6. 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 MP5-32C11 antibody (Cat. No. 554402) is useful as a detection antibody for a sandwich ELISA for measuring mouse IL-6 protein levels. Biotinylated MP5-32C11 antibody can be paired with the purified MP5-20F3 antibody (Cat. No. 554400) as the capture antibody, with recombinant mouse IL-6 protein (Cat. No. 554582) as the standard. The biotinylated MP5-32C11 antibody should be pre-titrated in the range of 0.5 to 2 µg/ml to determine its optimal concentration for ELISA. To obtain linear standard curves, doubling dilutions of mouse IL-6 ranging from ~2,000 to 15 pg/ml are recommended for inclusion in each ELISA plate. For specific methodology, please visit our web site, www.bdbiosciences.com, and go to the protocols section or the chapter on ELISA in the Immune Function Handbook.

Note 1: This ELISA pair is recommended primarily for measuring cytokine from experimental cell culture systems. These ELISA reagents are not recommended for assay of serum or plasma samples. For measuring mouse IL-6 in serum or plasma our BD OptEIA™ ELISA Set (Cat. No. 555240) or Kit (Cat. No. 550950) are specially formulated and recommended.

Note 2: This ELISA pair shows no cross-reactivity with any of the cytokines tested (e.g., mouse IL-1β, IL-2, IL-3, IL-4, IL-5, 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).

Western blot: The MP5-32C11 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
554400	Purified Rat Anti-Mouse IL-6	0.5 mg	MP5-20F3
554582	Recombinant Mouse IL-6	5 µg	(none)
555240	Mouse IL-6 ELISA Set	20 tests	(none)
550950	Mouse IL-6 ELISA Kit	2 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, 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)

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)

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