Technical Data Sheet

Purified NA/LE Rat Anti-Mouse GM-CSF

Product Information

Material Number:	**554403**
Size:	0.5 mg
Concentration:	1.0 mg/ml
Clone:	MP1-22E9
Immunogen:	Recombinant mouse GM-CSF
Isotype:	Rat IgG2a
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 MP1-22E9 antibody reacts with mouse granulocyte/macrophage-colony stimulating factor (GM-CSF). The immunogen used to generate the MP1-22E9 hybridoma was yeast-expressed recombinant mouse GM-CSF. 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 GM-CSF. Neutralization activity may be measured with a proliferation assay using 125 pg/mL recombinant mouse GM-CSF (Cat. No. 554586) to stimulate MC/9 cells at 5x10^4 cells/mL as indicator cells (i.e. preincubation of the antibody with recombinant mouse GM-CSF for 60 minutes).

50% Neutralization (ND50) at 0.2 - 2.1 µg/mL

> 90% Neutralization at 7 - 21 µg/mL

Recommended Assay Procedure:

ELISA: Purified MP1-22E9 antibody (Cat. No. 554403 or 554404) can be useful as a capture antibody for sandwich ELISA for measuring mouse GM-CSF protein levels. Purified MP1-22E9 antibody can be paired with the biotinylated MP1-31G6 antibody (Cat. No. 554407) as the detection antibody, with recombinant mouse GM-CSF protein (Cat. No. 554586) as the standard. For testing mouse GM-CSF in complex biological fluids, such as serum or plasma, investigators may wish to consider using the BD OptEIA™ Mouse GM-CSF ELISA Set (Cat. No. 555167).

Suggested Companion Products

Catalog Number	Name	Size	Clone
554586	Recombinant Mouse GM-CSF	10 µg	(none)
555167	Mouse GM-CSF ELISA Set	20 plates	(none)
554687	Purified NA/LE Rat IgG2a κ Isotype Control	0.5 mg	R35-95

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

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Nozaki S, Abrams JS, Pearce MK, Sauder DN. Augmentation of granulocyte/macrophage colony-stimulating factor expression by ultraviolet irradiation is mediated by interleukin 1 in Pam 212 keratinocytes. *J Invest Dermatol.* 1991 July; 97(1):10-14. (Biology)

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